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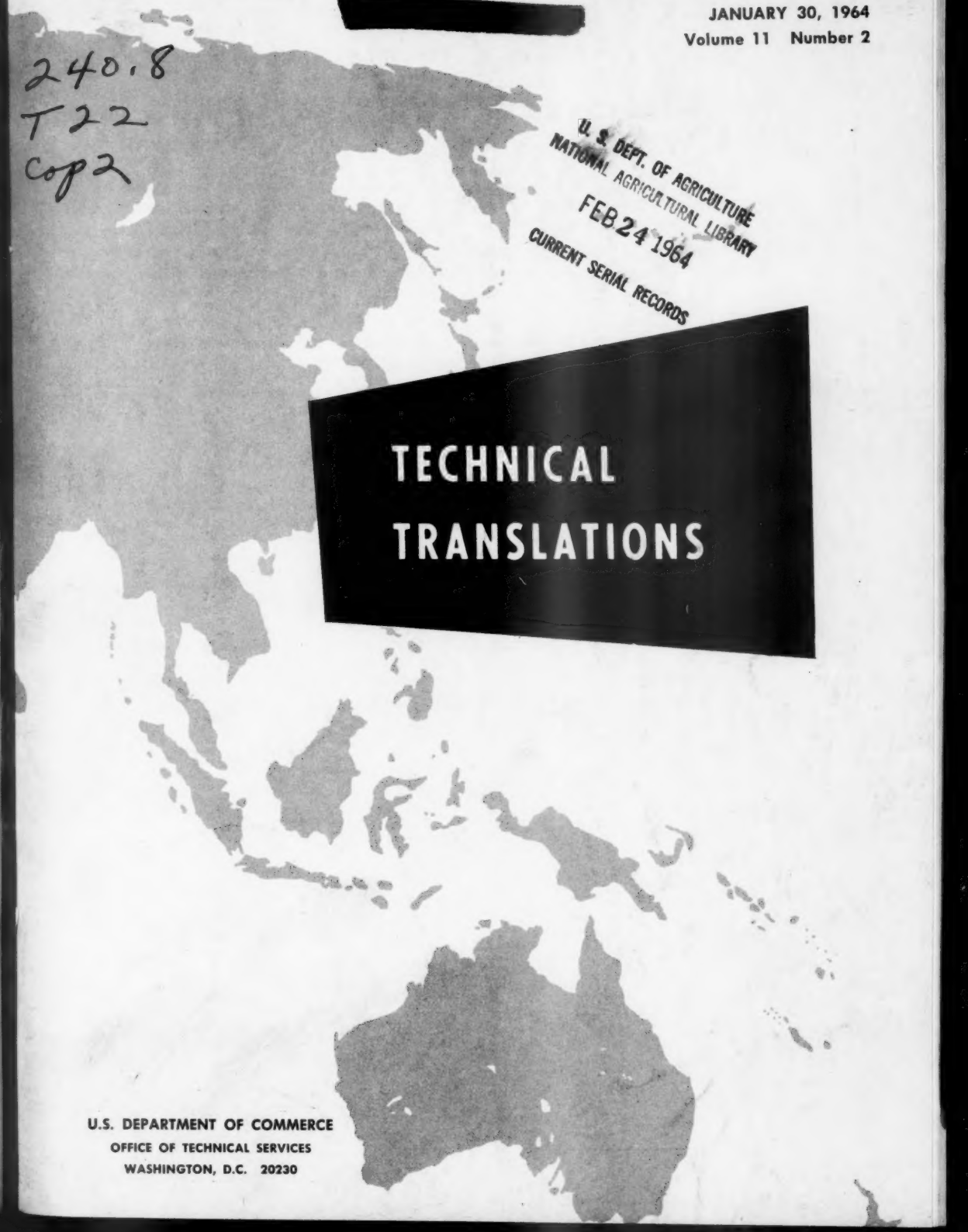

U.S. DEPARTMENT OF COMMERCE
OFFICE OF TECHNICAL SERVICES
WASHINGTON, D.C. 20230

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, Secretary

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, Director

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U.S. DEPARTMENT OF COMMERCE
Luther H Hodges, Secretary

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, Director

NOTICE

Beginning with Volume 11, Number 1 certain changes are being made in the format and contents of Technical Translations.

Abstracts or descriptors of the translations will no longer be included. While retaining the general grouping of translations by subject, Technical Translations now will serve its intended "clearinghouse" function more effectively. By becoming a title list, it will be possible to provide information more promptly on a greater number of translations.

In those cases where abstracts of translations are available separately on catalog cards, the notation "abstracts available" will be included at the end of the translation note.

Translations of separate articles which have been bound in one volume will be included as separate entries in order to give more detailed information on translations available. Journals translated cover-to-cover will be represented by reproduced tables of contents.

The subject index will no longer appear in the semi-monthly issues of Technical Translations. The Personal Author, Journal, and Translation Number Indexes will continue to be included, however.

CONTENTS

	Page
HOW TO ORDER TRANSLATIONS	vii
BIBLIOGRAPHY	71
AGRICULTURE	71
Animal Husbandry	71
Plant Cultivation	72
ASTRONOMY	72
Astrophysics	72
BEHAVIORAL SCIENCES	73
Psychology	73
BIOLOGICAL SCIENCES	73
Anatomy and Physiology	75
Biochemistry	77
Medical Specialties and Equipment	78
Microbiology	79
Pathology	79
Pharmacology and Toxicology	82
Radiobiology	85
Surgery	86
Zoology	87
CHEMISTRY	88
Analytical Chemistry	89
Inorganic Chemistry	89
Organic Chemistry	90
Physical Chemistry	91
EARTH SCIENCES	93
Climatology and Meteorology	93
Frost Science	94
Geodesy	95
Geology	95
Mineralogy	96
Oceanography	96
Physics of the Atmosphere	97
ENGINEERING	97
Chemical Engineering	98
Civil Engineering	102
Electrical and Electronic Engineering	102
Mechanical Engineering	105
Ordnance, Missiles, and Satellite	105
Sanitation and Safety Engineering	107
Ship Building	107
MACHINERY, FABRICATION, AND ACCESSORY EQUIPMENT	107
Engines and Propulsion Systems	108
Manufacturing Equipment and Processes	108
Transport, Traction and Hoist Facilities	108
MATERIALS	109
Ceramics and Refractories	109
Fuels, Lubricants, and Hydraulic Fluids	109
Leather and Textiles	110
Paints and Finishes	110
Plastics	111
Rubber and Elastomers	112
Wood and Paper	112
MATHEMATICS	112
Computing Devices	113
MECHANICS	113
Aerodynamics and Pneumatics	114
Hydrodynamics, Hydraulics, and Hydrostatics	114
METALLURGY	114
Ferrous Metals	117
Nonferrous (except light) Metals	117
Structural Metallurgy and Corrosion	118
NUCLEAR PHYSICS AND NUCLEAR CHEMISTRY	118
Nuclear Engineering and Power	119

	Page
PERSONNEL SUPPLIES AND PERSONAL EQUIPMENT	120
PHYSICS	120
Electricity and Magnetism	120
Electronics	121
Solid State Physics	121
Theoretical Physics	121
Thermodynamics	121
RESEARCH METHODS, TECHNIQUES AND EQUIPMENT	122
Communication Theory	123
SOCIAL SCIENCES	123
BOOK REVIEWS (None in this issue)	
TRANSLATIONS IN PROCESS	B-3
PERIODICALS TRANSLATED COVER-TO-COVER	C-65
Tables of Contents	C-67
AUTHOR INDEX	I-1
JOURNAL INDEX	I-3
NUMBER INDEX	I-9

HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

Some of the translations available from OTS or SLA are supplied in printed form; others are Xerox reproductions. Prices are listed in each entry. Any reports available from OTS or SLA will be provided in microfilm (35mm) on request. The following prices are charged for microfilm: 1 through 20 pages, 80 cents minimum, and three cents per page for every page in excess of 20 pages. Translations ordered from other sources, unless specific information is given to the contrary in the journal entry, are in printed form.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood,
California 90046

AGI
AGI Translations Office
American Geological Institute
2101 ConstitutionAve., N. W.
Washington, D. C., 20000

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
1515 Massachusetts Ave., N. W.
Washington, D. C. 20005

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D.C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
Englar

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D.C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P.O. Box 569
London, S.E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P.O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P.O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
14 Shammai Street
P.O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D.C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London. S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Office of Technical Services
Department of Commerce
Washington, D. C. 20230
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
1069 Minami Nakadori 2-chome
Fujisawa, Japan

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

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Georgia Institute of Technology
Price Gilbert Library
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MIT Libraries
Technical Reports, Room 14-E210
Massachusetts Institute of Technology
Cambridge, Massachusetts 02139

The Pennsylvania State University
University Park, Pennsylvania 16801

University of California
Engineering Library
Los Angeles, California 90000

University of Utah
University of Utah Library
Salt Lake City, Utah 84100

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Washington, D. C. 20540

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TECHNICAL TRANSLATIONS

Volume 11, Number 2 Pages 71 - 125 January 30, 1964

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Order from OTS $0.75 TT-63-41005

Consists of abstracts of articles from selected scientific and technical journals of Bulgaria and Hungary.

AGRICULTURE

THE NEW JOURNAL "CHEMISTRY IN AGRICULTURE" 7 Nov 63, 2p JPRS: 21786.
Order from OTS $1.75 in TT-63-41098 (p. 20-21)

Trans. from Sel'skaya Zhizn' (USSR) 1963, 22 Sep, p. 4. (Abstract available)

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 95. 25 Oct 63, 21p JPRS: 21606.
Order from OTS $0.75 TT-63-41010

Trans. of 50 short articles selected from 18 Russian newspapers and journals.

USSR INDUSTRIAL DEVELOPMENT: SOVIET TRACTORS AND AGRICULTURAL MACHINERY NO. 97. 31 Oct 63, 11p JPRS: 21684.
Order from OTS $0.50 TT-63-41043

Consists of 6 articles from 1963 issues of Russian newspapers. Separate entries have been prepared for 3 articles.

THE WORK OF COOPERATION GROUPS AT THE LENINGRAD KIROV TRACTOR PLANT. 31 Oct 63, 2p JPRS: 21684.
Order from OTS $0.50 in TT-63-41043 (p. 1-2)

Trans. from Izvestiya (USSR) 1963, 10 Oct, p. 3.

Glezer, Ya.
GREATER USE OF ECONOMISTS IN MACHINE DESIGN WORK. 31 Oct 63, 2p JPRS: 21684.
Order from OTS $0.50 in TT-63-41043 (p. 10-11)

Trans. from Ekonomicheskaya Gazeta (USSR) 1963, no. 40(113) p. 12.

Kulev, L. N., Gireva, R. N., and Stepnova, G. M.
2, 2'-DIPHENIC ACID DERIVATIVES. I. ESTERS, AMIDES AND ESTER-AMIDES OF DIPHENIC ACID AS POSSIBLE INSECTICIDES AND HERBICIDES. [1963] [8p] 12refs NCB Trans. A. 2225/SEH.
Order from OTS, SLA, or ETC $1.10 TT-63-24172

Trans. of #Zhurnal Obshchei Khimii (USSR) 1962, v. 32, no. 9, p. 2812-2816. (Abstract available)

Animal Husbandry

Cherkasskii, E. S.
VETERINARY SCIENCE AND EDUCATION IN HUNGARY (Veterinarnaya Nauka i Obrazovanie v Tengrii). 12 Sep 63, 12p (figs omitted) Trans. V-1852.
Order from OTS, SLA, or ETC $1.60 TT-63-23913

Trans. of Veterinariya (USSR) 1963, v. 40, no. 2, p. 79-83.

Frisch, K. v. and Kühn, A.
EXPERIMENTS ABOUT THE "ACCEPTABILITY" OF SEVERAL KINDS OF GRAIN TO THE CHICKEN: SUMMARY. [1963] 1p.
Order from SLA $1.10 TT-63-14952

Partial trans. (summary only) of Zeitschrift für Vergleichende Physiologie (West Germany) 1950, v. 27, p. 543.

Nechaev, A. A.
ALL-UNION CONFERENCE FOR THE CONTROL OF THE FOOT-AND-MOUTH DISEASE [Dec 62] (Vsesoyuznoe Soveshchanie po Bor'be Yashchurom). 9 Sep 63, 10p. Trans. V-1851.
Order from OTS, SLA, or ETC $1.10 TT-63-23805

Trans. of Veterinariya (USSR) 1963, v. 40, no. 3, p. 92-94.

Plant Cultivation

Kolyada, G. I.
AEROSOL PULSATING UNIT AAP-0.5 "MIKRON". 7 Nov 63, 5p JPRS: 21784.
Order from OTS $0.50 TT-63-41096

Trans. of Mashinostroenie (USSR) 1963, no. 4, p. 102-104. (Abstract available)

Maksimovich, M. M.
BREEDING AND SEED SELECTION OF FIELD CROPS: [SELECTED PARTS]. [1963] 60p. Trans. A-1397.
Order from OTS, SLA, or ETC $5.60 TT-63-23334

Trans. of mono. Selektsiya i Semenovodstvo Polevykh Kul'tur, Moscow, 1962, chap. 24, p. 368-377; chap. 26, p. 384-394 (abstract), chap. 27, p. 395-405.

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THE STUDY OF THE RESISTANCE TO DROUGHT OF CULTIVATED CEREALS AT VARIOUS PERIODS OF THEIR LIFE (Izuchenie Zasukhoustoichivosti Kul'turnykh Zlakov v Pazlichnye Periody Ikh Zhizni) tr. by V. A. Solodukhin. [1963] [29p] (foreign text included) 29refs [CSIRO] Trans. no. 5911.
Order from OTS, SLA, or ETC $2.60 TT-63-23126

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Order from OTS SLA, or ETC $1.10 TT-63-23751

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Zhitneva, P. I., Shaumyan, K. V., and Bronshtein, E. V.
NEW VARIETIES OF BLACK CURRANT (Novye Sorta Chernoi Smorodiny). June 63 [10]p. RTS-2280.
Order from OTS, SLA, or ETC $1.10 TT-63-23231

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ASTRONOMY

Beskrovnyi, N. S.
CAUSES FOR THE LUMINESCENCE OF ROCKS ON THE MOON. 19 Jun 63 [4]p. 1ref. FTD-TT-63-508.
Order from OTS, SLA, or ETC $1.10 TT-63-23647

Unedited rough draft trans. of Priroda (USSR) 1962 [v. 51] no. 12, p. 100.
Another trans. is available from NRCC as NRCC C-4255 DSIS-T-380-R, Jan 63 [2]p.

Astrophysics

LUNAR DIMENSIONS: ANNOTATED BIBLIOGRAPHY OF SOVIET-BLOC LITERATURE 1957-63. Report on AID Work Assignment no. 35. 30 July 63 [58]p. 68 refs. AID Rept. B-63-100; NASA N63-19354.
Order from OTS, SLA or ETC $5.60 TT-63-23589

DESCRIPTORS: *Moon, *Extraterrestrial topography, *Abstracts, *Bibliographies, *Astronomy, Astrophysics.

SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE, NO. 71. 18 Nov 63, 29p. JPRS: 21929.
Order from OTS $16.00/year TT-61-11147-71
foreign $20.00/year

DESCRIPTORS: *Geophysics, *Astronomy, *Astronautics, *Upper atmosphere, *Space probes, *Astrophysics, Oceanology, Meteorology.

Consists of news items and abstracts of scientific articles on astronomy, meteorology, oceanography, terrestrial geophysics, upper atmosphere and space research, and other miscellaneous subjects.

Niilisk, Khel'gi.
A NEW RADIATION CHART (Novaya Radiatsionnaya Nomogramma) tr. by Myron Ricci. Aug 62 [23]p. 46refs. AmMetSoc-T-R-392+; AD-297 213.
Order from OTS, SLA, or ETC $2.60 TT-63-15664

Trans. of Akademiya Nauk Estonskoi SSR [Tallinn]. Izvestiya. Seriya Fiziko-Matematicheskikh i Tekhnicheskikh Nauk, 1961 [v. 10] no. 4, p. 329-339. (Abstract available)
Another trans. is available from OTS or SLA $2.60 as TT-62-24704, JPRS-13793, 18 May 62 [29]p.

Udal'tsov, V. A.
A CORRELATION POLARIMETER FOR THE 20-cm. BAND. [1963] [8]p. 12refs. [DSIR] NLL M. 10350.
Order from OTS, SLA, or ETC $1.10 TT-63-23350

Trans. of #Izvestiya Vysshikh Uchebnykh Zavedenii. Radiofizika (USSR) 1962, v. 5, no. 1, p. 5-12. (Abstract available)

CONVENTIONS, CONFERENCES AND SYMPOSIA: ANNUAL CONFERENCE ON AVIATION AND ASTRONAUTICS (NO. 5) [AND] SEMINAR ON PUNITIVE MEASURES IN ISRAEL. 25 Oct 63, 2p JPRS: 21607.
Order from OTS $0.75 in TT-63-41011 (p. 21-22)

Trans. of Mada' (Israel) 1963, v. 8, no. 1, p. 56.

ISRAELI SCIENTIFIC AND TECHNICAL PERSONALITIES: BIOGRAPHIC INFORMATION [AND] SELECTED ARTICLES ON INSTITUTES, UNIVERSITIES, CONVENTIONS, CONFERENCES AND SYMPOSIA.
25 Oct 63, 22p. JPRS: 21607.
Order from OTS $0.75 TT-63-41011

Trans. of Mada' (Israel) 1963, v. 8, no. 1, p. 3, 8, 21, 28, 33, 42-44, 53-56.

Consists of brief biographies of Y. Ilani-Feigenbaum, M. Kokhavi, A. Negev, A. Rimon, R. Shlep and 3 added articles. Separate entries have been prepared for the non-biographical articles.

LIST OF CANDIDATES FOR MEMBERSHIP IN THE ACADEMY OF MEDICAL SCIENCES USSR. 31 Oct 63, 10p JPRS: 21675.
Order from OTS $0.50 TT-63-41044

Trans. from Meditsinskaya Gazeta (USSR) 1963 [v. 26] 4 Oct, p. 4.

NEWS AND DEVELOPMENTS AT THE UNIVERSITIES. 25 Oct 63, 10p JPRS: 21607.
Order from OTS $0.75 in TT-63-41011 (p. 11-20)

Trans. of Mada' (Israel) 1963, v. 8, no. 1, p. 53-56)

DESCRIPTORS: *Universities, Education, Israel

NOMINATIONS FOR MEMBERSHIP IN THE ACADEMY OF MEDICAL SCIENCES USSR: ANNOUNCEMENTS 11-15 OCT 63. 7 Nov 63, 20p JPRS: 21766.
Order from OTS $0.75 TT-63-41084

Trans. from Meditsinskaya Gazeta (USSR) 1963 [v. 26] 11 Oct, p. 4; 15 Oct, p. 4.

Wirdenius, Hans and Lönnsjö, Sterner.
FUNCTIONS OF SUPERVISORS IN THE BUILDING INDUSTRY. [1963] [96p] 48refs
Order from SLA $8.60 TT-63-20381

Trans. of [Statens Nämnd för Byggnadsforskning]. Report (Sweden) 1962, no. 85. (Abstract available)

Psychology

COMMUNIST IDEOLOGY AND PSYCHOLOGY: THE JUNE PLENUM OF THE CC CPSU AND THE TASKS OF PSYCHOLOGY. 6 Nov 63, 8p JPRS: 21744.
Order from OTS $0.50 TT-63-41071

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Trans. from Stroitel'naya Gazeta (USSR) 1963, no. 114, 25 Sep, p. 2.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL INDUSTRY NO. 121. 29 Oct 63, 57p JPRS: 21646.
Order from OTS $1.50 TT-63-41030

Consists of 18 articles from 1963 issues of Russian newspapers. Separate entries have been prepared for 13 articles.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL INDUSTRY NO. 122.
7 Nov 63, 59p JPRS: 21786.
Order from OTS $1.75 TT-63-41098

Consists of 28 articles from 1963 issues of Russian newspapers. Separate entries have been prepared for 14 articles. (Abstract available)

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL INDUSTRY NO. 123. 12 Nov 63, 59p JPRS: 21822.
Order from OTS $1.50 TT-63-41116

Consists of 24 articles from 1963 issues of Russian journals and newspapers. Separate entries have been prepared for 13 articles.

USSR INDUSTRIAL DEVELOPMENT: SOVIET CHEMICAL INDUSTRY NO. 125. 20 Nov 63, 57p JPRS: 21934.
Order from OTS $1.50 TT-63-41174

Consists of 16 articles from 1963 issues of Russian newspapers. Separate entries have been prepared for 12 articles. (Abstract available)

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Osipov, V. G.
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PL-480 mono. Strongiloidea Zhivotnykh i Cheloveka. Strongilidy, Leningrad, 1955, 225pp.

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Yudanov, K. I.
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PERIODICALS TRANSLATED COVER-TO-COVER

For basic list of Periodicals Translated Cover-to-Cover see Technical Translations Volume 11, Number 1.

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Tables of Contents of Recently Translated Journal Sections

Following is a list by Russian title of the Tables of Contents appearing in this issue.

The Reproduced Tables of Contents are arranged alphabetically by English title.

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GEOCHEMISTRY

A Translation of

ГЕОХИМИЯ

No. 2 1963

CONTENTS

Balashov, Yu. A. Regularities in the Distribution of the Rare Earths in the Earth's Crust 107

Khomyakov, A. P. Relation between Content and Composition of the Rare Earths in Minerals 125

Kirkinskii, V. A. On Polarity in Isomorphism 133

Yeremenko, G. K., A. A. Walter and V. I. Klimenchuk. On the Distribution of Gallium in Alkalic Rocks, Azov Region 145

Ryzhenko, B. N. Determination of Dissociation Constants of Carbonic Acid and the Degree of Hydrolysis of the $CO_3^=$ and HCO_3^- Ions in Solutions of Alkali Carbonates and Bicarbonates at Elevated Temperatures 151

Lisitsin, A. K. Description of Media in Hydrogeochemical Investigations 165

Plyusnina, I. I. Infrared Absorption Spectra of Beryllium Minerals 174

Artemov, Yu. M. Absolute Age of Some Rocks in the Southern Part of the Tarakskii Massif (Yenisei Range) 191

Rodionov, D. A. Triparametric Distributions of the Contents of Elements in Rocks 197

NEWS

Third All-Union Conference on Metallogeny 204

Letter to the Editors 208

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C-67

APPLIED MATHEMATICS AND MECHANICS
PRIKLADNAIA MATEMATIKA I MEKHANIKA

VOLUME 27 1963 NUMBER 3

CONTENTS

V. V. LOKHIN and L. I. SEDOV: Nonlinear tensor functions of several tensor arguments 597
V. I. MOSSAKOVSKII: Compression of elastic bodies under conditions of adhesion 630
G. P. CHEREPANOV: On a method of solving the elasto-plastic problem 644
G. I. BARENBLATT and R. L. SALGANIK: On the wedging of brittle bodies. Self-oscillations during wedging 656
S. N. SHIMANOV: On the theory of linear differential equations with periodic coefficients and time lag 674
V. A. PAL'MOV: Stability of optimal systems in the presence of disturbances 688
IU. E. BOROVSKII and IU. I. KULAKOV: On the motions of systems of varying composition in the presence of variational forces 700
F. L. CHERNOUS'KO: On the motion of a satellite about its center of mass under the action of gravitational moments 708
A. N. KRAIKO: The determination of minimal drag bodies by Newton's and Busemann's drag laws 723
A. A. NIKOL'SKII: Invariant transformation of the equations of motion of an ideal monatomic gas and new classes of their exact solutions 740
V. B. BARANOV, G. A. LIUBIMOV and KHU IUIN': Calculation of the boundary layer on a dielectric flat plate in a flow of an incompressible anisotropically-conducting fluid, in the presence of a uniform magnetic field 757
M. I. SHLIOMIS: Oscillatory perturbations in a conducting fluid in a magnetic field 777
I. B. CHEKMAREV: The influence of anisotropy of electrical conductivity on the development of flow of a viscous fluid in the initial section of a plane channel 789
IU. A. SOZONENKO: Piston motion under the effect of gas pressure 795
D. P. KOUZOV: Diffraction of a plane hydroacoustic wave on the boundary of two elastic plates 806
A. G. ALENITSYN: Rayleigh waves in a non-homogenous elastic half-space 816
IA. A. MINDLIN: Free elastic waves on the surface of a tube of infinite thickness 823
V. F. DEM'IANOV: The construction of an integral optimal programmed control function in a linear system 829
A. P. PROSKURIAKOV: Stability of periodic solutions of quasi-linear autonomous systems with one degree of freedom 837
K. G. VALEEV: On the convergence of series determining the boundaries of the regions of instability of solutions of second order linear differential equations with periodic coefficients 847
U. K. NIGUL: Application of the Lur'e symbolic method to stress analysis and to the two-dimenisonal theory of elastic plates 862
G. LEITMAN: Maximum range for a rocket in horizontal flight 867
IU. P. GUS'KOV: A method of orientating the plane of a circular orbit of a satellite 873
K. A. LUR'E: Liousville's and Stäckel's theorems for hyperbolic variational problems 882
D. D. IVLEV and T. N. MARTYNOVA: On the theory of compressible, ideally plastic media 892
Correction to author's paper: "Computation of correlations in a locally isotropic turbulent flow," (PMM, Vol. 27, No. 1, 1963) 898
Contents list 899
Transliteration table 901

PRINTED IN THE UNITED STATES OF AMERICA BY EDWARDS BROTHERS, INC., ANN ARBOR, MICHIGAN

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Measurement Techniques

A translation of Izmeritel'naya Tekhnika, a publication of the Academy of Sciences of the USSR

(Russian Original Dated May, 1963)

1963, No. 5, pp. 365-454 November, 1963

CONTENTS

	PAGE	RUSS. PAGE
GENERAL PROBLEMS OF METROLOGY		
Precision Limit Obtainable in Automatic Statistical Treatment of Repeated Measurement Results. P. V. Novitskii	365	1
LINEAR MEASUREMENTS		
Television Methods of Controlling Dimensions. O. D. Bychkov	372	6
Precision of Pneumatic Instruments for Linear Measurements. A. Ya. Rostovykh	376	10
New Method for Centering Hole Gauges. G. B. Kainer	379	12
Indicating Instrument for Measuring Very Small Displacements. K. I. Zablonskii and V. I. Nassal'	381	13
New Volumenometer. N. A. Shipilin	382	14
MECHANICAL MEASUREMENTS		
Dispersion in the Values of Reference Rockwell Hardness Gauges. A. V. Smirnov and E. D. Rodkevich	384	15
Selection and Evaluation of Collector Devices for Measuring the Torque of Rotating Shafts in Various Machines. D. N. Efimov	386	18
Zero Point Control in Resistance-Wire Strain-Gauge Measurements. V. A. Rikhter	390	21
Manufacture of Reference Hardness Gauges. A. N. Rylov	393	23
ELECTRICAL MEASUREMENTS		
DC Automatic Potentiometer without a Slide Wire. A. M. Melik-Shakhnazarov and V. V. Savin	394	24
Investigation of a Phase-Sensitive Rectifier Circuit. Yu. V. Khomenyuk	398	26
Measurements of the Ejecting Electromagnetic Force in a Conducting Liquid. U. Ts. Andres	402	29
Balancing Measured Vector Quantities in Comparison Instruments. L. F. Kulikovskii and B. Ya. Likhttsinder	405	31
Device for Measuring Large Direct Currents. D. A. Bezukladnikov and V. P. Skuridin	410	35
Permanent-Magnet Recording Instrument with a Forward Movement of the Coil. M. I. Belyi	412	36
Transistor Voltage Stabilizer with a Common Negative Output. B. P. Siluyanov	413	37
Nomograms for Computing Voltage Stabilizers with Silicon Stabilitrons. A. I. Il'enkov	414	38
Semiconductor Capacitive Frequency Meter. V. I. Safonov, I. N. Ivanov, and V. N. Komissarova	417	40
Measurement of Resistances by the "Proportional Division" Method. V. I. Gorelov	421	43
HIGH AND ULTRAHIGH FREQUENCY MEASUREMENTS		
Measurement of the Sensitivity of Regenerative Circuits. M. E. Gertsenshtein, Yu. A. Lur'e, and Yu. G. Smirnov	423	44
Transmission of Reference Frequencies by Broadcasting Stations. G. N. Palii	428	48
Mutual Quadripole Attenuation Measurements at Ultrahigh Frequencies by Means of the "Three Readings" Method. V. P. Petrov	432	51
New Version of an Oscillographic Method for Measuring Frequency. E. A. Zel'din	433	52

CONTENTS (continued)

	PAGE	RUSS. PAGE
Ageing High-Quality AT-Cut Quartz Resonators. M. Kh. Makashev and O. A. Tkhorzhevskii	435	53
PHYSICOCHEMICAL MEASUREMENTS		
Methods for Certifying Test Gas Mixtures. É. M. Malkova, T. L. Radovskaya, M. P. Belozerova, and Z. T. Berestneva	437	54
LIQUID AND GAS FLOW MEASUREMENTS		
State of the Problem of Evaluating Precision in Measuring the Flow of Water in Open Canals and Waterways. L. V. Selivanov	441	58
Nomogram for Computing Measuring Diaphragms for Gas and Water Meters. A. T. Bendik	442	59
REVIEWS AND REPORTS		
Training of Metrological Personnel in France	445	61
ADVICE	448	62
STATE COMMITTEE OF STANDARDS, MEASURES AND MEASURING INSTRUMENTS OF THE USSR		
Measures and Measuring Instruments Approved by the State Committee as the Result of State Tests and Passed for Use in the USSR	450	63

Soviet Physics
CRYSTALLOGRAPHY

A Translation of the Journal "Kristallografiya"

(Russian Original Vol. 8, No. 2, pp. 147-304, March-April, 1963)

Vol. 8, No. 2, pp. 107-240 September-October, 1963

CONTENTS

		PAGE	RUSS. PAGE
Representation of Crystal-Lattice Symmetry in Reciprocal Space. B. K. Vainshtein and B. B. Zvyagin	(T)	107	147
Representation of Physical Space in Fourier Space. I. V. Yavorskii	(T)	115	158
The Symmetry and Antisymmetry Groups of Layers. A. F. Palistrant and A. M. Zamorzaev	(T)	120	166
Effects of Rotation of Chain Molecules on Their Diffraction Pattern. B. K. Vainshtein.	(T)	127	174
Determination of the Possible Distribution of Atoms in Octahedral Holes of the n-th Layer of Densest Packing with n > 3. N. L. Smirnova	(T)	131	181
The Crystal Structures of Magnesium-Rich Compounds in the Systems La-Mg, Ce-Mg, and Nd-Mg. V. I. Evdokimenko and P. I. Kripyakevich	(E)	135	186
The Crystal Structure of 1,5-Dibromoanthraquinone. L. A. Chetkina, G. A. Gol'der, and G. S. Zhdanov.	(E)	142	194
Electron Diffraction Data on the Structures of Sepiolite and Palygorskite. B. B. Zvyagin, K. S. Mishchenko, and V. A. Shitov	(E)	148	201
Radiation Effects in α-Quartz. G. S. Zhdanov, V. G. Zubov, E. V. Kolontsova, L. P. Osipova, and I. V. Telegina	(T/E)	154	207
The Theory of Elastic Waves in Crystals. Comparison with Isotropic Medium. F. I. Fedorov.	(T)	159	213
The Elastic Constants of Molecular Crystals. The Elastic Constants of Naphthalene. K. S. Aleksandrov, G. S. Belikova, A. P. Ryzhenkov, V. R. Teslenko, and A. I. Kitaigorodskii	(E/T)	164	221
Measurement and Calculation of Some Thermodynamic Parameters of Adamantane and Hexamethylenetetramine. K. V. Mirskaya.	(E)	167	225
Investigation of the Activity of the Crystal Faces of Tungsten with Respect to the Oxygen Method of Color Etching. O. V. Mitrofanov.	(E)	169	229
Dislocation Multiplication in Alkali-Halide Crystals Under the Influence of High-Frequency Vibration. É. P. Belozerova, N. A. Tyapunina, and E. G. Shvidkovskii.	(E)	172	232
Detecting Dislocations in Cadmium Sulfide and Zinc Sulfide Single Crystals. R. V. Bakradze and I. A. Rom-Krichevskaya.	(E)	176	238

(continued)

CONTENTS (continued)

	PAGE	RUSS. PAGE
Detecting Dislocations on the (111) and ($\bar{1}\bar{1}\bar{1}$) Planes of Gallium Arsenide Single Crystals by the Etch Method. P. L. Petrusevich and E. S. Sollertinskaya . . . . . (E)	182	243
Study of Crystallographic Orientation and Etching of Gallium Arsenide by the Method of Light Figures. A. P. Vasil'ev and A. P. Vyatkin . . . . . (E)	186	248
Camera for the Diffraction Radiography of Dislocations in Large Crystals. V. F. Miuskov. (E)	192	255
BRIEF COMMUNICATIONS		
Possible Changes in the Point-Group Magnetic Symmetry in Second-Order Ferromagnetic Transitions. Yu. I. Sirotin . . . . . (T)	195	259
Analytic Representation of Atomic Scattering Factors for Electrons. F. A. Brusentsev and V. F. Dvoryankin . . . . . (T/E)	197	260
The Transmitted Beam in the Case of Anomalous Absorption of X Rays. L. B. Zagarii and V. M. Kardonskii . . . . . (E)	199	263
Some Applications of the Graphoanalytical Method for the Determination of Lattice Parameters. B. M. Rovinskii and E. P. Kostyukova. . . . . (E)	200	264
Crystal Structures of Some Intermetallic Compounds of Gadolinium and Neodymium. P. I. Kripyakevich, V. F. Terekhova, O. S. Zarechnyuk, and I. V. Burov. . . . . (E)	203	268
An X-Ray Diffraction Study of the Change in the Unit Cell Constant of Solid Solutions of (Ba, Pb) TiO_3 in the Paraelectric Region as a Function of the Composition. A. G. Kapyshev and Yu. N. Venevtsev . . . . . (E)	204	269
The Crystal Structure of Copper Diacetatodiammine. Yu. A. Simonov, A. V. Ablov, and T. I. Malinovskii . . . . . (E/T)	205	270
An X-Ray Diffraction Investigation of Gallium and Indium Antimonides. G. V. Ozolin'sh, G. K. Averkieva, N. A. Goryunova, and A. F. Ievin'sh . . . . . (E)	207	272
The Effect of Packing Defects on the Position of the (311) Lines of the X-Ray Photographs of Face Centered Cubic Metals. Ya. D. Vishnyakov and Ya. S. Umanskii' . . . . . (E/T)	207	273
The Role of Hydrogen Bonds in the Structure of Complex Thiocyanates of Metals. Z. V. Zvonkova, A. N. Rodionov, and Z. P. Povet'eva . . . . . (E)	210	275
Conditions for Self-Excitation of a Plane Parallel Crystalline Film. B. A. Sotskii and A. M. Goncharenko . . . . . (T)	212	278
The Nature of the Smoky Color in Crystals of Synthetic Quartz. L. I. Tsinober and L. G. Chentsova. . . . . (E/T)	214	280
The Dielectric Properties of Single Crystals of Boracite. A. S. Sonin and I. S. Zheludev. . . . . (E)	217	283
The Dielectric Properties of Single Crystals of Cesium Nitrate. A. S. Sonin and I. S. Zheludev. . . . . (E)	219	285
The Question of the Existence of a Critical Point on the Curve of the Isomorphous Transformation of Cerium. E. G. Ponyatovskii . . . . . (E)	221	287
The Effect of Impurities on the Formation of Surface Features of NaCl Crystals. Gy. Turchányi. . . . . (E)	224	290
Growth of Corundum Crystals from Solution in Molten Lead Fluoride. V. A. Timofeeva and R. A. Voskanyan. . . . . (E)	227	293
Some Aspects of the Iodide Process of Crystallization. G. A. Kurov . . . . . (E)	230	297
Protection of Thin Films of Indium Antimonide by Vacuum Evaporation. P. S. Agalarzade and S. A. Semiletov. . . . . (E)	231	298
Comparison of Tubes BSV-1, BSV-2, BSV-4, BSV-6, BSV-8, and BSV-9 for Efficiency in Structure Studies. M. M. Umanskii, Z. K. Zolina, V. V. Zubenko and V. F. Kozlovskii . . . . . (E)	233	300
A Neutron Diffractometer. I. I. Yamzin, Yu. S. Kuz'minov, V. E. Staritsyn, and E. I. Mal'tsev . . . . . (E)	234	302
ERRATA.	237	304

AUTHOR INDEX

Author	Page
Abramenko, P.	100
Agafonov, A.	115
Aguf, I. A.	91
Akulintsev, V.	124
Akutin, M. S.	111
Alekin, R. O.	73
Aleksandrov, L. N.	118
Aleksandrov, N. V.	104
Aleksandrova, I. V.	74
Aleksandrovskaya, M. M.	82
Alekseev, G.	107
Alimov, O.	108
Amirkhanov, Kh. I.	121
Anglaret, P.	91
Apanasyuk, M. P.	80
	79
Apollov, B. A.	B-3
Ardashnikova, L. I.	82
Aronov, M. P.	B-3
Aronova, G. N.	79
Arshavskaya, E. I.	75
Arshavskii, I. A.	75
Astaf'ev, A. S.	115
Astopov, S. V.	B-3
Autenrieth, H.	91
Avdeev, S.	124
Averbukh, S. B.	110
Aver'yanova, L. L.	81
Azerbaev, I.	100
Babayan, S. A.	79
Babskii, E. B.	75
Babuorv, V.	108
Badaeva, M. K.	109
Badoz-Lambling, J.	89
Baiburttyan, A. A.	B-3
Barabash, M. L.	111
Baranaev, M.	91
Barchukov, A. I.	121
Barenblatt, G. I.	120
Barsukov, V. V.	B-3
Bartenev, G. M.	109
Barykin, K.	100
Bashchenko, A. P.	118
Bassi, I. W.	91
Batrakov, Yu. V.	106
Baturic, I.	102
Bauer, R.	100
Bauereisen, E.	75
Bazardzhyan, A. G.	79
Beklemishev, K. V.	74
Beletskii, V. V.	106
Beloshapkina, T. A.	80
Benashvili, E. M.	100
Benic, R.	112
Bening, V. S.	103
Bergman, A. G.	92
Bernshtein, L. B.	B-3
Berry, F. -J. -B.	108
Bershtein, S. A.	85
Beskrovnyi, N. S.	72
Biagushin, M.	108
Blok, N. I.	115
Bocharov, A. A.	86
Bochirol	120
Bochkov, A. F.	78
Bodrova, N. V.	B-3
Bogachenko, V. G.	85
Bogdanets, M.	100
Bogoyavlenskii, A. N.	97
Bolyakina, Yu. P.	75
Bommer, H.	89
Bondarenko, V. V.	84
Borisov, P. G.	B-3
Borisovich, G.	100
Borodin, Yu. P.	82
Borovkov, V. S.	110
Botsmanov, K. V.	84
Bozhko, A. P.	79
Bragin, V. F.	115
Brai, I. V.	109
Brandmair, F.	101
Brandshtetr, I.	119
Braschos, A.	112
Bratchenko, B.	124
Braude, G. E.	92
Brilov, A.	108
Bronshtein, E. V.	72
Bubulashvili, G.	115
Burenkov, M.	101
Buzkov, V. A.	107
Bykovskii, V.	107
Candeli, A.	79
Caposi, C.	98
Chaevskii, M. I.	110
Chaplygin, S. A.	113
Chechal', V.	107
Cherkasova, E. M.	90
Cherkasskii, E. S.	71
Chernov, N. N.	116
Chernyaev, I. V.	104
Chernyi, A. V.	95
Chernysheva, G. V.	80
	77
	76
	79
Chernyshova, G. V.	80
Chertkov, I. L.	81
Chesnokov, V. A.	77
Chetverikov, D. A.	85
Chistovich, L. A.	73
Chu, Ping-nan	93
Chuchkin, G.	100
Chushkin, P. I.	113
	114
Claus, A.	90
Clemm, H.	90
Corradini, P.	91
Curtius, T.	90
Cushny, A. R.	82
Cvjeticanin, N. M.	89
Cvoric, J. D.	89
Dakhovskii, I. V.	121
Danilina, A. N.	78
Darovskii, E. T.	107
Dasoyan, M. A.	91
Davitaya, F. F.	93
Delimarskii, Yu. K.	92
Delone, N. L.	78
Demidovich, N. B.	123
Denisenko, A. I.	87
Denisova, Z. M.	87
Dergunov, E. P.	92
Desbarres, J.	89
Detrez, P.	116
Dik, T.	92
Dionesov, S. M.	79
Diuzhnevskaya, O. B.	106
Djordjevic, O.	85
Dmitrievskii, A. A.	106
Dobrushin, R. L.	123
Dol'nikov, N. A.	83
Doskocil, J.	83
Draganic, Z.	89
Dreher, E.	112
Dronov, N.	100
Dubinin, N. P.	86
Dubrovskii, O. V.	108
Dubson, I.	101
Dudchik, G. Kh.	78
Durgar'yan, S. M.	113
Dvoryakovskii, V. A.	124
Eeshov, A.	100
Efremov, E. D.	110
Egorov, M.	125
Egorova-Mezhevalova, A. G.	82
Eidel'nant, M. P.	111
Elfimov, V. M.	103
Ellinger, A.	83
El'vasberg, P. E.	97
Enikeeva, S. I.	75
Ermatova, D. U.	75
Esenin-Vol'pin, A. S.	112
Estulin, G. V.	117
Evdokymov, I. R.	86
Evladov, B.	101
Evstrop'ev, K. K.	92
Faddeev, D. K.	113
Fal'ko, I.	116
Faust, E. S.	83
Fedorov, B. M.	76
	80
Fedorov, V.	100
Fedorov, V. S.	101
Fedorova, I. G.	111
Fedorova, K. M.	110
Fel'dshtein, A. L.	103
Fetisenko, M.	100
Fetisov, P. A.	107
Fidel'man, E. S.	81
Fink, K.	103
Finkel'shtein, B. N.	92
Finkel'shtein, I. I.	110
Firsov, L. V.	96
Fischer, G.	117
Fishbein, N. B.	116
Fleming, R.	89
Flury, F.	83
Fock, V.	121
Fokin, A. V.	90
Frenkel', V. I.	113
Frisch, K. v.	71
Fudel'-Osipova, S. I.	76
Fuseya, G.	92
Gabuzova, E.	113
Galeev, A. A.	121
Galjaard, D.	110
Galteev, F. F.	103
Gandzha, L. I.	103
Garin, M.	116
Gasteva, S. V.	85
Gätzi, K.	90
Gegoczi, E.	95
Gel'fer, G. A.	B-3
Gel'man, A. S.	116
Genkin, A. D.	95
Gerold, V.	118
Gevorkyan, Kh.	124
Gireva, R. N.	71
Glezer, Ya.	71
Glushko, V. P.	122
Gokhblit, L. I.	81
Goldman, L. M.	95
Goncharov, V. N.	B-3
Gopko, V. F.	124
Gorbunov, N. I.	96
Gorbunov, V.	108
Gordeeva, L. D.	119
Gorlenko, S. M.	95
Gornak, K. A.	80
Gorzynska, J.	109
Grachev, V.	115
Grebenshchikov, I. V.	109
Greze, V. N.	87
Gribkova, S. I.	122
Grigorash, Z. K.	93
Grigorevskii, V. N.	106
Grinevich, F. B.	95
Grinevich, K. P.	109
Grishin, V. G.	119
Grishko, F. E.	76
Gritskov, I. V.	110
Grob, K.	89
Grodzovskii, G. L.	120
Gromakovskaya, M. M.	86
Gromov, V. V.	119
Gromova, E. A.	80
Grunin, K. Ya.	87
Gulyaev, A. P.	115
Gurevich, Ya. B.	118
Gurvich, L. V.	122
Gusev, K. A.	74
Gus'kov, A. A.	93
Gus'kova, I. L.	121
Gutenmakher, L. I.	113
Guzman Urrego, M.	84
Hartmann, I.	91
Hayakawa, A.	90
Heffter, A.	82
	83
	84
	85
Hermann, F. J.	111
Hoffmann, K.	84
Hollowell, J. L.	110
Hrastnik, J.	98
Huang, Chen-kuo	93
Hübner	82
Hultzsch, K.	111
Hunt, R.	84
Il'in, V. A.	103
Illarionov, V. V.	93
Ioffe, L. A.	76
Iogansen, V. S.	109
Isaev, E. A.	93
Ishii, Y.	90
Ishutin, A. G.	97
Isobe, T.	108
Istratov, A. G.	120
Ivakhnenko, O. G.	87
	113
Ivanitskaya, I. N.	76
Ivanov, A. A.	B-3
Ivanov, A. P.	116
Ivanov, E. A.	74
Ivanov, V.	88
Ivanov, V. A.	98
Ivanov, V. E.	118
Ivanova, K. L.	96
Ivanovskii, F. P.	92
Izhevskii, G. K.	B-3
Izvekov, M. V.	97
Jankiewicz, C.	121
Kabanov, B. N.	92
Kadaner, L.	92
Kagan, B. M.	113
Kagihara, K.	91
Kalikhman, L. E.	114
Kalin, G. P.	B-3
Kalinin, G. E.	108
Kamshilov, N. N.	B-3
Kanaev, A. A.	109
Kanazir, D.	85
Kapron, C. F.	110
Karataev, I.	101
Karev, N.	108
Kargin, V. A.	111
Karpinskaya, R. S.	74
Karpman, V. L.	76
Karyagin, N. P.	103
Kats, S.	74
Kazanskii, M. M.	95
Kaufman, Sh.	108
Kazimov, A.	104
Kazovskii, E. Ya.	103
Keberle, H.	84
Kedo, G. I.	96
Kerimov, A. M.	121
Kervella, F.	96
Khaisman, E. B.	77
	76
Khayutin, V. M.	76
Khil'kin, A. M.	81
Khirin, G. D.	107
Khorlin, A. Ya.	78
Kiryushina, I. N.	76
Kiseleva, N. A.	85
Kiselov, O. N.	B-3
Kishkin, S. M.	101
Kiverin, M. D.	87
Kiverina, Z. I.	87
Klaas, Yu. A.	73
Klepikova, L.	125
Kleshchov, V. V.	113
Klyucharева, M. M.	79
Knunyants, I. L.	90
Kobelev, V. V.	120
Kobzev, V.	101
Kogan, B. I.	116
Kolbe, E.	101
Kolegov, G. A.	97
Kolyada, G. I.	72
Komendantova, A. L.	84
Kondrat'eva, L. N.	77
Kondratovich, V. M.	116
Kondratsova, O. F.	B-3
Koplova-Sviridova, T. N.	78
Korablev, A.	125
Korde, N. V.	74
Korogodskii, M. V.	111
Korolev, N. V.	95
Korot'ko, G. F.	77
Korsunskii, M. I.	103
Kosec, L.	118
Kosharskaya, I. L.	75
Koshevoi, V. N.	106
Kosonogov, L. F.	84
Kostic, L.	85
Kostogryzov, V. S.	98
Kotletsov, B. N.	109
Kotov, I.	102
Koval, I. I.	103
Koval', N.	125
Koval'chenko, N. S.	116
Kovarov, V. D.	B-3
Kovarskaya, B. M.	111
Kovshulya, A. A.	98
Kowalewski, S.	110
Kozareva, N. A.	88
Kozlov, A.	101
Kozlov, N.	109
Krakovskii, N. I.	87
Krasil'nikov, Yu. I.	114
Krasnogorskaya, N. V.	93
Krasnyanskaya, V. G.	81
Krastina, E. M.	80
Krasyuk, V. S.	107
Kravchenko, V. S.	107
Krayukhin, B. V.	B-3
Krayushkin, A. S.	111
Krivtsov, N. V.	92
Krokhina, E. M.	80
Kropp, W.	84
Krylov, V. Yu.	123
Krymova, L. G.	101
Kühn, A.	71
Kulberg, L. M.	89
Kuleshov, M. Ya.	116
Kulev, L. N.	71
Kulichkova, V. A.	88
Kulikov, D. K.	106
Kupchinov, B. I.	111
Kurdyumov, G. V.	121
Kuzin, M. I.	87
Kuz'minskii, A. S.	112
Kuznetsova, T. I.	120
Lagutin, B. L.	94
Laikhtman, D. L.	B-3
Laktionov, A. F.	96
	97
Lamy, M.	90
Lange, K. A.	76
Laptev, N.	111
Lashko, N. F.	115
Lavrentev, N. P.	103
Lavrent'eva, N. B.	77
	76
	80
Lazaryan, A.	125
Ledneva, A. M.	89
Leikina, E. M.	80
Leikina, E. S.	82
Leonov, A. A.	113
Levantovskaya, I. I.	111
Levenshtein, V. I.	123
Levin, B.	116
Levit, V. S.	78
Levitin, P.	101
Lifshits, I. M.	122
Likhtman, V. I.	B-4
Limonov, G.	117
Lindsey, A. J.	79
Lipkan, M. F.	86
Lisitsyn, K. M.	86
Lobashov, M. E.	85
Logginov, B. I.	B-4
Lohs, K.	84
Lokshina, V.	109
Lönnsjö, S.	73
Lopatenok, Al. A.	87
Lopatenok, An. A.	87
Lozinskii, R. P.	107
Ludwig, K. F. W.	75
Luk'yanov, E. K.	76
Lushchitskii, M. A.	86
Lushnikov, E. F.	80
Lyubchanskaya, L. I.	112
Machlin, V. A.	104
Maciejewski, R.	109
Maikov, A.	125
Makarov, L. L.	92
Makarov, O. F.	106
Makarov, V.	101
Maksimovich, M. M.	72

Author	Page
Makushok, V. M.	88
Malavard, L.	114
Malinin, S.	125
Malinskii, U. M.	111
Malkhasyan, M.	125
Maltsev, B. K.	122
Mal'tsev, V. V.	122
Malyutin, A.	112
Mansard, B.	120
Manukhin, B. N.	81
Markovskaya, G. I.	80
Markovskii, N. I.	96
Marshak, M. E.	76
Martin, H.	90
Martinez Silva, R.	84
Maslenkovskii, L. G.	109
Maslennikov, L. M.	122
Maslov, N. A.	88
Mazanet, M.	119
Mazunina, G. N.	80
Mchedlov-Petrosyan, O. P.	122
Medevev, Ya. G.	B-3
Meerson, F. Z.	76
	80
Mei-lei	77
Mekhel', L. L.	104
Melent'ev, P.	111
Mel'nik, V. F.	90
Mel'nikov, I.	117
Mel'nikov, N. N.	90
Menitskii, I.	107
Merkulov, I. A.	106
Meyer, E.	90
Mikhailov, V. V.	122
Mikhailov, Yu. A.	104
Mikhalev, V. G.	104
Mikoelyan, A. L.	80
Milcu, S.	123
Millies, P.	120
Mironov, A.	109
Mironova, N. V.	B-3
Mirzabaeva, L. A.	77
Mishasta, M.	100
Mizutori, M.	108
Mizyuk, L. Ya.	95
Mogil'nichenko, K.	125
Molokanov, I. V.	94
Monaenkov, A. M.	81
	80
Morozova, M. S.	79
Morozova, M. Yu.	80
Mu, Jung-mei-hsiung	93
Muk, A. A.	89
Murav'eva, N. P.	84
Murazyan, R. I.	81
Musatov, K. A.	101
Musin, M.	125
Nadezhdina, E. A.	81
Natta, G. I.	91
Nechaev, A. A.	71
Nechiporenko, E. P.	118
Neiman, M. B.	111
Neronov, Yu. N.	94
Nesterov, N. G.	104
Niilisk, Kh.	72
Nikabadze, O.	115
Nizhibitskii, O. N.	110
Nosov, B. I.	104
Novitskii, V. G.	104
Nylen, P.	91
Nylinder, P.	112
Obrenovic-Paligoric, I. D.	89
Oganesyan, S.	125
Oksiyuk, G.	108
Oraevskii, V. N.	121
Orzhekovskii, V. L.	118
Osiko, V. V.	92
Osipov, A. D.	118
Osipov, V. G.	B-4
Osipyan, Yu. A.	121
Otkhemezuri, G. L.	113
Ouchi, K.	92
Palastin, L. M.	104
Panashchenko, A. D.	84
Pankratov, A. V.	90
Papliyan, G.	101
Parin, N. V.	88
	74
Parin, V. V.	77
Pauleve, J.	120
Pavko, D.	117
Pavlenko, S. P.	92
Pavlov, I. M.	118
Perepelkin, V.	111
Persaud, K.	79
Pervomaiskii, G. S.	88
Petrov, N.	101
Petrov, V. P.	94
Petrzhak, K. K.	87
Pieper, H.	78
Pindich, M. T.	86
Pink, R.	109
Pirs, J.	117
P'lavchenko, N. I.	B-4
Plesityi, D. F.	81
Podgornik, A.	118
Podrezova, N. A.	80
Pogosyan, L. A.	84
Pokrovskii, N. B.	123
Pol'kin, S. I.	101
Polovoi, I. F.	104
Polyakov, D.	125
Pomerantserva, M. D.	86
Pometun, G. K.	115
Popov, D. A.	104
Popov, N. N.	114
Popova, T. I.	92
	B-4
Portyanov, V. A.	81
Poulsson, E.	84
Poznakhirev, V. F.	108
Priimachenko, A. D.	74
Prokhorov, A. M.	121
Propp, M. V.	109
Provodina, B. N.	80
Pshennikova, M. G.	81
Putseiko, E. K.	121
Puzei, I. M.	118
Radushkevich, V. P.	84
Ramaiya, L. K.	86
Rapoport, S. Ya.	86
Rautyan, S. G.	120
Razumov, A. I.	91
Rebinder, P. A.	B-4
Repin, Yu. M.	80
	81
Reppe, W.	91
Revskoi, A. K.	86
Reznik, M. B.	103
Riess, W.	84
Ristovski, P.	118
Rodrezova, N. A.	80
Roginskii, V. N.	104
Romanenko, A.	110
Rosenblatt, F.	113
Rosenfeld, V. F.	109
Rosin, Ya. A.	86
Roullier, F.	120
Rousset, P.	120
Rozanova, L. S.	81
Rozanova, V. D.	81
Rozanova, V. I.	109
Rubel', V. M.	79
Runschke, G.	90
Ruske, W.	91
Rutsai, S. V.	84
Rymkevich, A. I.	116
Ryu, K.	78
Ryzhova, N. M.	77
Sachkov, V. I.	87
Sadov, L. G.	109
Sadovskaya, L. Yu.	84
Sagdeev, R. Z.	121
Saito, K.	91
Sal'manovich, V. S.	77
Samsonov, G. V.	116
Sanotskaya, N. V.	77
Sapelkina, I. M.	87
Sarychev, V. A.	107
Savchenko, V.	100
Savin, P.	101
Savvaitova, K. A.	88
Sazhin, B. I.	111
Seguin, M.	120
Sekiguchi, S.	90
Semenova, T. A.	92
Semikin, I. D.	98
Semiletov, S. A.	121
Senefelder, N. V. D.	108
Senov, P. L.	85
Seravin, L. N.	88
	79
Serbulenko, M. G.	107
Sergeev, L. A.	96
Shagalova, S. L.	109
Shaposhnikov, Yu. G.	87
Shaumyan, K. V.	72
Shazkin, F. D.	72
Shcheglov, P. V.	97
Shcherbakov, O. B.	115
Shchetilin, A. P.	104
Shchukin, E. D.	B-4
Shelest, A. E.	118
Shelina, T. A.	111
Shenderov, S. M.	81
Shennikov, V. V.	113
	114
Shidlovskii, V. P.	114
Shikhobalova, N. P.	82
Shinozaki, K.	91
Shirshin, I.	101
Shkhvatsabaya, Yu. K.	76
Shlezinger, M. I.	113
Shlionskii, M.	117
Shlyakhman, A. A.	112
Shpakov, Yu.	101
Shparlinskii, V. M.	B-4
Shtemenko, L. C.	122
Shtern, L. S.	86
Shubenko-Shubin, L. A.	108
Shul'man, A. P.	94
	95
Shumilin, A.	102
Shupyatskii, A. B.	94
Shurygina, E. A.	96
Sicherl, B.	117
Siestrunck, R.	114
Simkin, A. B.	104
Sinyakov, V. S.	81
Sirota, A. M.	122
Sklyarenko, S. I.	90
Skryabin, K. I.	82
Skvirskaya, E. A.	82
Slivkin, A. V.	84
Smirenkin, G. N.	119
Smirnov, K. A.	104
Smirnova, Z. G.	93
Smolenski, K.	110
Sobieva, Z. I.	77
Sobolev, S. P.	108
Sokolov, S.	101
Sokolov, V. A.	102
Sokolov, V. I.	104
Sokolovskii, V. D.	125
Soldatova, I. N.	88
Solopov, E. F.	74
Soriano Lleras, A.	84
Sorokin, Yu. I.	79
Sovietov, N. A.	105
Spiridonova, Ya. V.	94
Spitzin, V. I.	119
Stadler, R.	91
Stas', I. I.	97
Staudinger, H.	112
Stepanov, A. V.	117
Stepin, V.	108
Stepnova, G. M.	71
Stevancevic, D. B.	118
Strizhkova, A. S.	111
Surkin, N.	102
Sverbikhin, I.	102
Sveshnikova, I. N.	75
Svistunova, T. V.	117
Tacussel, J.	89
T'an, Kuan-jih	93
Tanaka, M.	111
Tarasov, L. S.	96
Tarasov, N. I.	75
Tenyakov, E. I.	105
Teregulov, R. A.	81
Terenin, A. N.	121
Tereshkova, V.	107
Terlets'ka, Ya. T.	86
Teterin, N.	102
Teterskii, V. A.	110
Tikhodeev, G. M.	117
Timofeev-Resovskii, N. V.	86
Tkach, I. T.	116
Tkachenko, K. N.	80
Topchiyan, M. E.	120
Trendelenburg, P.	85
Tret'yakov, A.	102
Troitskii, V. I.	86
Truten', R. M.	103
Tsaritsyn, V. V.	98
Tsetlin, M. L.	123
Tsintsadze, G. E.	82
Tsygankov, O. L.	98
Tsyrupa, I. G.	96
Tszyan', Chzhan	72
Tumanyan, T.	125
Tynnyi, A. N.	110
Udal'tsov, V. A.	72
Ul'yaninskii, L. S.	75
	77
Ul'yanov, M.	102
Urman, E. L.	113
Ushakov, S. N.	85
Uskov, I. A.	112
Usova, Z. V.	B-4
Vain, A.	100
Vakar, M. D.	82
Vakhidova, O. T.	77
	75
Valdman, A. V.	B-4
Vartanyan, A.	102
Varvarov, N.	107
Vashantsev, A. A.	84
Vasil'chenko, I. V.	97
Vatrushin, L. S.	118
Veinberg, B. P.	95
Veksler, E. Ya.	118
Verte, L. A.	102
Veryaskin, O.	109
Verzilova, O. V.	77
Veselov, V. T.	107
Vinogradov, A. P.	96
Vinogradov, K.	102
Vlasov, A. Ya.	121
Vlasov, Yu. G.	92
Vögler, W.	120
Vol'fkovich, S. I.	93
Volkov, V. F.	122
Vonsovskii, S. V.	B-4
Vorob'eva, E. V.	94
Vorob'eva, V. N.	103
Vorontsov, P. A.	97
Vukcevic, M.	93
Vul'fson, N. I.	B-4
V'yunov, G.	101
Wang, Shao-min	105
Wang, Tung-seng	119
Weng, Tu-ming	93
Wirdenius, H.	73
Yakubovskaya, V. I.	85
Yakunichev, N. I.	87
Yakushina, B. M.	82
Yan, Syao-shan	86
Yanovich, E.	96
Yan'shin, B. I.	114
Yaroslavskii, D.	110
Yastrebov, V. D.	97
Yu, Chuei-pang	120
Yudanov, K. I.	B-4
Yunusov, A. Yu.	77
Zaganescu, F.	107
Zahradnik, R.	91
Zaitsev, V. P.	88
Zakusov, V. V.	78
Zalyalyutdinova, S. Z.	87
Zamorskii, A. D.	97
Zel'dovich, Ya. B.	120
Zenkevich, L. A.	97
Zernik, F.	83
Zhabotinskii, G. Kh.	77
Zhadin, V. I.	75
Zharovskii, F. G.	90
Zhitneva, P. I.	72
Zhorov, I. S.	78
Zhukovskii, V. D.	87
Zinn, W.	121
Zinov'ev, A. A.	92
Zmii, V. I.	118
Zolotov, B.	117
Zotta, M.	90
Zozovskii, A.	110
Zverev, N. I.	94
Zvolinskii, N. V.	95

JOURNAL INDEX

Journal	Page
Academia Republicii Populare Romine. Institutul de Fiziologie Normala si Patologica. Studii si Cercetari de Fiziologie (Rumania)	
1963, v. 8, no. 3, p. 335-337	73
Academie des Sciences, Paris. Comptes Rendus (France)	
1905, v. 140, p. 936-937	89
Acta Technica (Hungary)	
1957, v. 18, no. 1/2, p. 103-115	95
Akademiya Nauk Estonskoi SSR Tallinii. Izvestiya. Seriya Fiziko-Matematicheskikh i Tekhnicheskikh Nauk,	
1961, v. 10, no. 4, p. 329-339	72
Akademiya Nauk SSSR. Doklady	
1950, v. 72, no. 4, p. 725-728	111
1950, v. 72, no. 5, p. 915-918	111
1950, v. 75, no. 6, p. 815-818	92
1960, v. 135, no. 5, p. 1147-1149	111
1961, v. 139, no. 2, p. 398-401	121
1961, v. 139, no. 2, p. 510-512	88
1963, v. 149, no. 2, p. 284-287	123
1963, v. 150, no. 6, p. 1370-1372	86
1963, v. 151, no. 3, p. 718-721	85
1963, v. 151, no. 5, p. 1195-1197	78
1963, v. 151, no. 5, p. 1222-1224	75
1963, v. 152, no. 1, p. 67-70	113
Akademiya Nauk SSSR. Ikhtiologicheskaya Komissiya. Trudy Soveshchanii,	
1960, no. 10, p. 117-121	B-3
1960, no. 10, p. 188-194	B-4
1960, no. 10, p. 230-234	B-4
1960, no. 10, p. 235-238	B-3
Akademiya Nauk SSSR. Institut Biologii, Sverdlovsk, Trudy,	
1962, no. 22, p. 7-16	86
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Okeanologiya (USSR)	
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1962, v. 2, no. 5, p. 898-903	97
1962, v. 2, no. 6, p. 961-969	88
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1961, 352p.	B-4
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1955, v. 1, no. 1, p. 5-47	96
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1950, v. 12, p. 225-271	
Patent (Austria)	
183 758	90
Patent (Denmark)	
76 954	109
Patent (France)	
949 844	91
1 099 145, add.	108
1 106 060, add. 1	98
Patent (France) add.	
67 911	98
69 297	108
Patent (Germany)	
133 533	102
175 080, add.	82
188 571	82
189 482	82
442 038	84
464 142	90
812 251	89
944 789	91
1 112 807	78
1 146 473	110
Patent (Italy)	
424 653	98
460 196	112
463 918	112
Patent (Japan) pub.	
24-4627	91
29-7330	111
36-9170	108
Patent (Netherlands)	
58 091	108
Patent (Norway)	
98 880	102
Patent (Poland)	
44 523	109
Patent (Sweden)	
120 428	90
Patent (USSR)	
123 523	92
141 592	102
147 043	104
147 255	104
147 263	104
151 755	109
152 000	113
152 106	94
Patent application (Germany)	
B 18 223	90
Pediatriya (USSR)	
1963, v. 42, no. 8, p. 98-101	81
Pervichnaya Produktsiya Morei i Vnutrennikh Vod, Minsk,	
1961, p. 7-10	75
1961, p. 301-307	74
1961, p. 314-318	74
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1961, 63p.	120
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1962, v. 5, no. 4, p. 293-299	75
Plasticheskie Massy (USSR)	
1961, no. 1, p. 35-37	111
Plastmassy v Mashinostroenii i Priborostroenii Kiev,	
1961, p. 359-366	111
Pochvovedenie (USSR)	
1947, no. 4, p. 252-259	96
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1961, v. 1, no. 2, p. 3-13	116
Pracovni Lekarstvi (Czechoslovakia)	
1963, v. 15, no. 7, p. 277-306; no. 8, p. 321-349	73
Pravda, Leningrad (USSR)	
1963, 15 Aug	125
1963, 29 Aug, p. 2	105
1963, 7 Sep, p. 4	109
1963, 14 Sep, p. 1	999
Pravda, Moscow (USSR)	
1961, 25 Apr	105
1962, 29 Jul	105
1962, 12-16 Aug	105
Pravda (Moscow (USSR) (con.)	
1962, 2-7 Nov 62	106
1962, 23 Dec	105
1963, 6 Feb, 13 Feb, 20 Feb, 2 Mar, 17 Mar, 26 Mar	105
1963, 3-7 Apr	105
1963, 14 Apr, 23 Apr	105
1963, 17 May	105
1963, 23 May, 25 May	106
1963, 15-20 Jun	105
1963, 7 Aug	106
1963, 4 Sep, p. 2	98
1963, 5 Sep, p. 1	99
1963, 5 Sep, p. 2	102
1963, 25 Sep, p. 2	88
Pravda Ukrainy (USSR)	
1963, 5 Sep	117
1963, 10 Sep, p. 2	101
Pravda Vostoka (USSR)	
1963, 1 Sep, p. 2	100
1963, 7 Sep	125
1963, 27 Sep, p. 1	99
Pribor dlya Impul'snykh Ispytanii Mikronnykh Serdechnikov, Moscow	
1961, 30p.	104
Prikladnaya Geofizika (USSR)	
1958, no. 20, p. 141-154	96
Prikladnaya Matematika i Mekhanika (USSR)	
1963, v. 27, no. 3, p. 393-592	C-68
Prilivnye Elektrostantsii v Sovremennoi Energetike, Moscow,	
1961, 276p.	B-3
Priroda (USSR)	
1962, v. 51, no. 12, p. 100	72
1963, v. 52, no. 8, p. 3-17	93, 96
1963, v. 52, no. 8, p. 38-44	93, 94
1963, v. 52, no. 8, p. 62-66	93, 97
1963, v. 52, no. 8, p. 85-88	93, 97
1963, v. 52, no. 8, p. 88-90	93, 96
Problemy Artiki i Antarktiki (USSR)	
1960, no. 5, p. 53-58	96
Problemy Kibernetiki (USSR)	
1961, no. 5, p. 105-121, 123-136	123
Problemy Peredachi Informatsii (USSR)	
1960, no. 6, p. 34-45	104
Promyshlennost' Armenii (USSR)	
1963, v. 6, no. 6, p. 9-13	125
1963, v. 6, no. 6, p. 13-14	125
Rabochaya Gazeta (USSR)	
1963, 23 Aug	116
1963, 24 Aug	114
1963, 7 Sep, p. 2	110
1963, 11 Sep, p. 2	101
1963, 13 Sep, p. 2	100
1963, 21 Sep, p. 2	100
1963, 24 Sep, p. 2	102
Rodiotekhnika (USSR)	
1951, v. 6, no. 5, p. 38-46	103
1952, v. 7, no. 6, p. 55-56	103
1959, v. 4, no. 12, p. 2094-2095	121
Raschet i Izmerenie Razborchivosti Rechi, Moscow,	
1962, 391p.	123
Referativnyi Zhurnal. Biologiya (USSR)	
1963, no. 8	74
1963, no. 15	123
Referativnyi Zhurnal. Farmakologiya Toksikologiya (USSR)	
1963, no. 10	122
Referativnyi Zhurnal. Khimiya (USSR)	
1963, no. 2	123
Referativnyi Zhurnal. Khimiya. Biologicheskaya Khimiya (USSR)	
1963, nos. 5, 8	122
1963, no. 9	74
Referativnyi Zhurnal. Matematika (USSR)	
1963, no. 8	123
Referativnyi Zhurnal. Mekhanika (USSR)	
1961, no. 10	113
1961, no. 11	113
Referativnyi Zhurnal. Obshchie Voprosy Patologii, Onkologii (USSR)	
1963, nos. 3	122
1963, no. 6	74
1963, no. 7-8	122
K. Rheinische Friedrich-Wilhelms-Universität, Bonn,	
1940 (PB-73380)	112
Rontgen Technische Dienst N. V., Rotterdam (Netherlands)	
n.d.	119
Rudarsko-Metalurski Zbornik (Yugoslavia)	
1963, no. 2, p. 89-101	114, 117

Journal	Page
Rudarsko-Metalurski Zbornik (Yugoslavia) (con.)	
1963, no. 2, p. 103-110	102, 114
1963, no. 2, p. 111-123	114, 117
1963, no. 2, p. 125-137	98, 114
1963, no. 2, p. 139-142	114, 118
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Schädliche Gase, Dampfe, Nebel Rauch-und Staubarten, Berlin	
1931, p. 187-188	83
1931, p. 257-258	83
1931, p. 261-264	83
1931, p. 275	83
1931, p. 307	83
1931, p. 310	83
1931, p. 319	83
1931, p. 401ff	83
1931, p. 418-419	83
Seifen-Öle-Fette Wachse (West Germany)	
1951, v. 77, p. 203-206	120
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Apr 62	115
Jul 62	119
Oct 62	120
	119
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Soudametal Co. Ltd., Brussels (Belgium) n.d.	115
Sovetskaya Belorussiya (USSR)	
1963, 17 Sep, p. 4	96
1963, 22 Sep, p. 4	99
1963, 25 Sep, p. 1	101
Sovetskaya Botanika (USSR) 1940, v. 8, no. 5/6, p. 144-153	72
Sovetskaya Estoniya (Estonian SSR) 1963, 15 Sep, p. 2	99
Sovetskaya Kirgiziya (USSR)	
1963, 18 Aug, p. 1	110
1963, 18 Aug, p. 1	98
Sovetskaya Latviya (Latvian SSR) 1963, 14 Sep, p. 1	99
Sovetskaya Litva (Lithuanian SSR) 1963, 4 Sep	124
Sovetskaya Meditsina (USSR)	
1963, v. 26, no. 2, p. 154-159	87
1963, v. 26, no. 5, p. 74-79	82
Sovetskaya Moldaviya (USSR) 1963, 25 Sep, p. 4	101
Sovetskaya Rossiya (USSR)	
1963, 29 Aug, p. 2	102
1963, 11 Sep, p. 2	101
1963, 5 Oct, p. 1	101
Sovetskie Rybo Khozyaistvennye Issledovaniya v Moryakh Evropeiskogo Severa, Moscow 1960, p. 185-230	88
Spirtovaya Promyshlennost' (USSR) 1963, v. 29, no. 6, p. 18-20	102
Stal' (USSR) 1963, v. 23, no. 9, p. 835-858	117
Statens Nämnd för Byggnadsforskning Report (Sweden) 1962, no. 85	73
Stiinta si Tehnica (Rumania) 1963, v. 15, no. 7	107
Stroitel'naya Gazeta (USSR)	
1963, 28 Aug	115
1963, 1 Sep, p. 1	98
1963, 4 Sep, p. 1	112
1963, 20 Sep, p. 1	101
1963, no. 114, 25 Sep, p. 2	99
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Sudostroenie (USSR) 1961, v. 27, no. 7, p. 55-60	107
Sumarstvo (Yugoslavia) 1955, v. 8, no. 9, p. 534-545	112
Svarochnoe Proizvodstvo (USSR)	
1963, no. 5, p. 6-9	115
1963, no. 5, p. 9-13	115, 116
1963, no. 5, p. 41-44	115, 116
Tekhnika Molodezhi (USSR) 1963, v. 31, no. 3, p. 6-7	107
Tekstil'naya Promyshlennost (USSR) 1956, v. 16, no. 6, p. 33-36	110
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Toploenergetika (USSR)	
1961, v. 8, no. 8, p. 32-37	108
1962, v. 9, no. 1, p. 52-57	122
1962, v. 9, no. 5, p. 35-38	108
1962, v. 9, no. 11, p. 41-45	107
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Tezisy Dokladov i Soobshchenii na Soveshchanii po Teplo i Massoobmenu 5-9 Jun 61, Minsk,	
1961, p. 5-9	122
1961, p. 31-32	114
Ti Li (Chinese People's Republic)	
1963, no. 1, p. 12-17;	
no. 3, p. 143-144	93
T'ieh Lu She Chi Shou Ts'e; Ch'iao Han, Peiping, Mar 62, 536p.	102
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1955, v. 43, p. 21-42	88
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Trud, Moscow (USSR)	
1963, 5 Sep, p. 3	110
1963, 5 Sep, p. 3	100
1963, 5 Sep, p. 3	101
1963, 7 Sep	116
1963, 24 Sep, p. 1	100
1963, 25 Sep, p. 1	99
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Tsentral'naya Aerologicheskaya Observatoriya. Trudy (USSR) 1959, no. 30, p. 39-52	94
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Tsvetnye Metally (USSR) 1963, v. 36, no. 2, p. 68-71	118
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Uspekhi Khimii (USSR)	
1943, v. 12, p. 472-479	92
1957, v. 26, no. 4, p. 494-515	92
1963, v. 32, no. 3, p. 336-353	90
1963, v. 56, no. 1(4) p. 90-97	74
Vechernaya Moskva (USSR) 1963, 29 Aug, p. 2	102
Vestnik Elektropromyshlennosti (USSR)	
1958, v. 29, no. 4, p. 47-49	103
1958, v. 29, no. 6, p. 46-48	103
1958, v. 29, no. 11, p. 36-39	91
1962, v. 33, no. 11, p. 15-22	122
Vestnik Statistiki (USSR) 1963, no. 8, p. 37-40	125
Veterinariya (USSR)	
1963, v. 40, no. 2, p. 79-83	71
1963, v. 40, no. 3, p. 92-94	71
Vneshnyaya Torgovlya (USSR) 1963, v. 43, no. 7, p. 25-26	124
Voprosy Filosofii (USSR) 1963, v. 17, no. 8, p. 104-114, 143-154	74
Voprosy Ikhtiologii (USSR) 1963, no. 2(27) p. 209-221	87
Voprosy Meditsinskoi Khimii (USSR) 1961, v. 7, no. 1, p. 93-96	85
Voprosy Psikhologii (USSR)	
1961, v. 7, no. 5, p. 173-182	73
1963, v. 9, no. 4, p. 3-6	73
Vostochnaya Neft' (USSR) 1940, v. 2, no. 7/8, p. 40-42	101
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Vysokomolekulyarnye Soedineniya (USSR)	
1960, v. 2, no. 2, p. 200-204, 728-730, 926-930	112
1961, v. 3, no. 5, p. 761-767	111
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Wu Li Hsüeh Pao (Chinese People's Republic)	
1959, v. 15, no. 11, p. 588-602	120
1962, v. 18, no. 11, p. 600-604	105
Za Rulem (USSR)	
1963, v. 21, no. 7, p. 10-11	108
1963, v. 21, no. 7, p. 11	108, 109
1963, v. 21, no. 7, p. 13	108
1963, v. 21, no. 7, p. 16-17	108
Zarya Vostoka (USSR)	
1963, 31 Aug	115
1963, 12 Sep	124
Zeitschrift für Metallkunde (West Germany) 1963, v. 54, no. 6, p. 370-380	118
Zeitschrift für Physik (Germany) 1932, v. 75, p. 622-647	121
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Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki (USSR)	
1952, v. 22, no. 4, p. 471-474	122
1962, v. 43, no. 5, p. 1897-1903	120
1963, v. 44, no. 2, p. 649-656	121
1963, v. 44, no. 3, p. 903-911	121
Zhurnal Fizicheskoi Khimii (USSR)	
1939, v. 13, no. 11, p. 1635-1641	91
1949, v. 23, no. 6, p. 676-688	121
1950, v. 24, no. 11, p. 1299-1301	122
1958, v. 32, no. 7, p. 1618-1621	92
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Zhurnal Neorganicheskoi Khimii (USSR)	
1960, v. 5, no. 2, p. 297-305	92
1961, v. 6, no. 6, p. 1466-1470	90
1962, v. 7, no. 8, p. 1779-1782	93
1963, v. 8, no. 1, p. 186-191	92
Zhurnal Nevropatologii i Psikhiatrii (USSR) 1959, v. 59, no. 12, p. 1436-1443	82
1960, v. 60, no. 2, p. 194-201	84
1960, v. 60, no. 8, p. 1027-1032	82
Zhurnal Obshchei Khimii (USSR)	
1939, v. 9, n. 1819-1824	90
1962, v. 32, no. 9, p. 2812-2816	71

Journal	Page
Zhurnal Prikladnoi Khimii (USSR)	
1959, v. 32, no. 2, p. 326-336	92
1962, v. 35, no. 1, p. 196-197	92
Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR)	
1961, no. 5, p. 10-15	114
1963, no. 4, p. 21-26, 94-99, 117-119	120
Zhurnal Tekhnicheskoi Fiziki (USSR)	
1959, v. 29, no. 3, p. 381-393	117
Zhurnal Ushnykh, Nosovykh i Gorlovykh Boleznei (USSR)	
1963, v. 23, no. 1, p. 88-96	78
Zoologicheskii Zhurnal (USSR)	
1943, v. 22, no. 4, p. 214-221	87
1949, v. 28, no. 6, p. 523-526	88
1958, v. 37, no. 9, p. 1412-1416	88
1960, v. 39, no. 10, p. 1525-1530	B-3
1963, v. 42, no. 9, p. 1329-1337	87

NUMBER INDEX

Number	Page
ABL-Trans-694	80
ABL-Trans-776	86
ACFEL Trans-25	94
ACFEL Trans-25 (p. 1-9)	94
ACFEL Trans-25 (p. 10-18a)	95
ACFEL Trans-25 (p. 19-35)	95
ACFEL Trans-25 (p. 36-45a)	95
ACFEL Trans-25 (p. 36-45a)	95
ACFEL Trans-25 (p. 46-63)	94
ACFEL Trans-25 (p. 64-69b)	94
ACFEL Trans-25 (p. 70-122d)	95
ACIC-TC-667	95
ACSI I-7040	102
AD-246 605	106
AD-250 273	114
AD-251 699	92
AD-253 448	97
AD-253 913	103
AD-253 914	106
AD-258 167	111
AD-258 608	112
AD-258 609	97
AD-259 823	103
AD-264 045	107
AD-264 047	109
AD-262 579	113
AD-262 821	106
AD-266 397	111
AD-266 587	106
AD-267 691	104
AD-267 698	104
AD-272 890	113
AD-275 816	122
AD-291 040	80
AD-294 527	122
AD-297 213	72
AD-403 993	97
AD-404 836	122
AD-409 305	122
AD-411 182	97
AEC-tr-4187	96
AEC-tr-4826	85
AEC-tr-5170	120
AEC-tr-5524	121
AEC-tr-5669	86
AEC-5737/2	119
AEC-tr-5737/2 (p. 59-66)	85
AEC-tr-5737/2 (p. 67-72)	118
AEC-tr-5737/2 (p. 73-82)	89
AEC-tr-5737/2 (p. 83-94)	89
AEC-tr-5737/2 (p. 95-102)	89
AEC-tr-5737/2 (p. 105-108)	89
AEI TP/T-3118	104
AERE Trans-956	119
AID-B-63-93	120
AID-B-63-100	72
AID-T-63-64	122
AID-T-63-90	103
AID-T-63-96	103
AID-T-63-112	105
AIS-Mars I	107
AmMetSoc-T-R-121	93
AmMetSoc-T-R-390	97
AmMetSoc-T-R-392	72
AmMetSoc-T-R-402	94
ATS-07Q72R	121
ATS-10Q72R	82
ATS-26Q72R	121
ATS-29Q71R	118
ATS-39Q72C	83
ATS-84Q71G	90
BEAIRA RefTrans/IB2016	122
BEAIRA RefTrans/IB2020	121
BN-6204-01	119
BN-6207-02	120
BN-6210-01	119
BNSL-T-1368	110
BNSL-T-1461	110
BSRA Trans-1219	107
CE Trans-2639	104
CE Trans-2706	105
CE Trans-2708	108
CE Trans-2710	108
CE Trans-2726	104
CE Trans-2804	103
CE Trans-2815	109
CE Trans-2958	103
CE Trans-2960	103
CE Trans-2989	103
CE Trans-2999	104
CE Trans-3056	118
CE Trans-3063	107
CEA-911	96
Courtaulds ML-3455	110
CSIRO Trans-199	75
CSIRO Trans-5911	72
CSIRO Trans-6016	105
CSIRO Trans-6170	112
CSIRO Trans-6204	88
CSIRO Trans-6220	72
DSIR NLL M. 3379	98
DSIR NLL M. 3440	107
DSIR NLL M. 3505	116
DSIR NLL M. 3617	108
DSIR NLL M. 3703	110
DSIR NLL M. 3710	94
DSIR NLL M. 3735	88
DSIR NLL M. 3761	121
DSIR NLL M. 3762	122
DSIR NLL M. 3798	104
DSIR NLL M. 3812	93
DSIR NLL M. 3823	94
DSIR NLL M. 3832	94
DSIR NLL M. 3859	103
DSIR NLL M. 3881	107
DSIR NLL M. 3891	114
DSIR NLL M. 3892	114
DSIR NLL M. 3896	117
DSIR NLL M. 3948	92
DSIR NLL M. 4957	109
DSIR NLL M. 5385	118
DSIR NLL M. 10031	88
DSIR NLL M. 10048	95
DSIR NLL M. 10050	72
DSIR NLL M. 10086	97
DSIR NLL M. 10094	110
DSIR NLL M. 10370	88
DSIR NLL M. 10371	109
DSIR NLL M. 10373	110
DSIR NT-595	109
DSIS-T-76-J	78
ETCH-63-2	120
ETR-63-4	121
ETR-63-8	113
ETF-63-11	92
EURAEC-301	119
EURAEC-325	120
EURAEC-377	115
EURAEC-394	115
EURAEC-408	120
EURAEC-444	115
EURAEC-450	119
EURAEC-484	118
EURAEC-490	119
EURAEC-492	119
EURAEC-509	115
EURAEC-515	117
EURAEC-551	119
FASEB S-428-2	81
FN-E-28	119
FPRB Trans-159	112
FTD-TT-61-36	114
FTD-TT-62-295 (p. 139-141)	114
FTD-TT-62-978	114
FTD-TT-62-1394	122
FTD-TT-62-1522	116
FTD-TT-62-1818	117
FTD-TT-62-1865	104
FTD-TT-62-1866	120
FTD-TT-63-59	104
FTD-TT-63-64	98
FTD-TT-63-87	120
FTD-TT-63-202	114
FTD-TT-63-239	123
FTD-TT-63-263	107
FTD-TT-63-295	75
FTD-TT-63-295 (p. 1-3)	79
FTD-TT-63-295 (p. 4-7)	75
FTD-TT-63-295 (p. 8-12)	82
FTD-TT-63-295 (p. 13-16)	80
FTD-TT-63-295 (p. 17-19)	76
FTD-TT-63-295 (p. 20-23)	76
FTD-TT-63-295 (p. 24-27)	76
FTD-TT-63-295 (p. 28-31)	76
FTD-TT-63-295 (p. 32-37)	76
FTD-TT-63-295 (p. 38-43)	77
FTD-TT-63-295 (p. 44-47)	81
FTD-TT-63-295 (p. 48-51)	81
FTD-TT-63-295 (p. 52-55)	84
FTD-TT-63-295 (p. 56-58)	77
FTD-TT-63-295 (p. 59-63)	82
FTD-TT-63-295 (p. 64-68)	77
FTD-TT-63-295 (p. 69-72)	77
FTD-TT-63-295 (p. 73-78)	76
FTD-TT-63-295 (p. 79-83)	80
FTD-TT-63-295 (p. 84-86)	79
FTD-TT-63-295 (p. 87-90)	79
FTD-TT-63-295 (p. 91-92)	75
FTD-TT-63-295 (p. 93-95)	79
FTD-TT-63-295 (p. 96-99)	80
FTD-TT-63-295 (p. 100-102)	80
FTD-TT-63-295 (p. 103-106)	80
FTD-TT-63-295 (p. 107-108)	80
FTD-TT-63-295 (p. 109-111)	80
FTD-TT-63-295 (p. 112-113)	81
FTD-TT-63-295 (p. 114-118)	81
FTD-TT-63-295 (p. 119-122)	81
FTD-TT-63-295 (p. 123-126)	81
FTD-TT-63-295 (p. 127-128)	82
FTD-TT-63-295 (p. 129-131)	81
FTD-TT-63-295 (p. 132-134)	82
FTD-TT-63-295 (p. 135-138)	79
FTD-TT-63-295 (p. 142-144)	76
FTD-TT-63-295 (p. 145-147)	76
FTD-TT-63-295 (p. 148-150)	84
FTD-TT-63-295 (p. 151-152)	77
FTD-TT-63-295 (p. 153-154)	77
FTD-TT-63-295 (p. 155-158)	76
FTD-TT-63-295 (p. 159)	76
FTD-TT-63-295 (p. 160-163)	75
FTD-TT-63-295 (p. 164-168)	75
FTD-TT-63-295 (p. 169-172)	77
FTD-TT-63-295 (p. 173-176)	75
FTD-TT-63-295 (p. 177-179)	75
FTD-TT-63-295 (p. 180-182)	81
FTD-TT-63-295 (p. 183-186)	81
FTD-TT-63-295 (p. 187-191)	75
FTD-TT-63-295 (p. 192-195)	80
FTD-TT-63-315	106
FTD-TT-63-345	106
FTD-TT-63-366	122
FTD-TT-63-402	114
FTD-TT-63-427	106
FTD-TT-63-431	104
FTD-TT-63-432	104
FTD-TT-63-433	104
FTD-TT-63-479	115
FTD-TT-63-489	107
FTD-TT-63-495	102
FTD-TT-63-508	72
FTD-TT-63-516	109
FTD-TT-63-517	122
FTD-TT-63-529	113
FTD-TT-63-530	119
FTD-TT-63-533	97
FTD-TT-63-541	93
FTD-TT-63-543	123
FTD-TT-63-544	123
FTD-TT-63-563	100
FTD-TT-63-564	111
FTD-TT-63-565	92
FTD-TT-63-574	110
FTD-TT-63-593	121
FTD-TT-63-604	109
FTD-TT-63-621	94
FTD-TT-63-658	113
FTD-TT-63-664	86
FTD-TT-63-666	103
FTD-TT-63-674	97
FTD-TT-63-811	125
GWT-TR-20	113
GWT-TR-21	122
JINR-P-1075	119
JPRS-20257	124
JPRS-21472	86
JPRS-21478	93
JPRS-21479	77
JPRS-21480	85
JPRS-21492	86
JPRS-21520	88
JPRS-21521	86
JPRS-21534	124
JPRS-21589	79
JPRS-21591	78
JPRS-21595	71
JPRS-21604	93
JPRS-21606	71
JPRS-21607	73
JPRS-21607 (p. 6-10)	74
JPRS-21607 (p. 11-20)	73
JPRS-21607 (p. 21-22)	73
JPRS-21610	74
JPRS-21613	107
JPRS-21617	79
JPRS-21620	81
JPRS-21628	85
JPRS-21630	87
JPRS-21640	87
JPRS-21643	117
JPRS-21643 (p. 10-14)	115
JPRS-21643 (p. 15-26)	116
JPRS-21643 (p. 27-34)	115
JPRS-21643 (p. 35-42)	116
JPRS-21643 (p. 43-51)	98
JPRS-21643 (p. 52-53)	115
JPRS-21643 (p. 54-58)	115
JPRS-21646	99
JPRS-21646 (p. 1-2)	110
JPRS-21646 (p. 6-7)	100
JPRS-21646 (p. 8-11)	100
JPRS-21646 (p. 12-13)	98
JPRS-21646 (p. 14-17)	99
JPRS-21646 (p. 20-23)	102
JPRS-21646 (p. 24-26)	101
JPRS-21646 (p. 30-33)	99
JPRS-21646 (p. 37-41)	99
JPRS-21646 (p. 42-47)	101
JPRS-21646 (p. 48-50)	102
JPRS-21646 (p. 51-54)	102
JPRS-21646 (p. 55-57)	101
JPRS-21659	78
JPRS-21659 (p. 1-11)	78
JPRS-21659 (p. 12-17)	78
JPRS-21659 (p. 18-19)	78
JPRS-21659 (p. 20-21)	78
JPRS-21673	90
JPRS-21675	73
JPRS-21676	118
JPRS-21682	73
JPRS-21684	71
JPRS-21684 (p. 1-2)	71
JPRS-21684 (p. 8-9)	124
JPRS-21684 (p. 10-11)	71
JPRS-21694	73
JPRS-21722	86
JPRS-21722 (p. 1-7)	87
JPRS-21722 (p. 8-14)	87
JPRS-21722 (p. 15)	87
JPRS-21723	73
JPRS-21730	97
JPRS-21733	75
JPRS-21734	78
JPRS-21736	123
JPRS-21737	76
JPRS-21744	73
JPRS-21745	124
JPRS-21745 (p. 1-5)	124
JPRS-21745 (p. 6-9)	125
JPRS-21745 (p. 10-12)	124
JPRS-21745 (p. 13-14)	125
JPRS-21745 (p. 15-20)	125
JPRS-21745 (p. 21-24)	124
JPRS-21745 (p. 25-28)	107
JPRS-21745 (p. 29-32)	108
JPRS-21745 (p. 33-36)	107
JPRS-21745 (p. 37-40)	101
JPRS-21745 (p. 41-53)	107
JPRS-21745 (p. 54-57a)	116
JPRS-21745 (p. 58-60)	124
JPRS-21748	95
JPRS-21749	87
JPRS-21754	86
JPRS-21757	118
JPRS-21758	118
JPRS-21766	73
JPRS-21771	84
JPRS-21773	124
JPRS-21773 (p. 1)	123
JPRS-21773 (p. 2-3)	124
JPRS-21773 (p. 4)	113
JPRS-21773 (p. 5-7)	124

Number	Page
JPRS-21773 (p. 8-9)	125
JPRS-21773 (p. 10-14)	108
JPRS-21773 (p. 15-19)	125
JPRS-21773 (p. 20-22)	125
JPRS-21773 (p. 23-25)	124
JPRS-21773 (p. 26-28)	125
JPRS-21773 (p. 29-32)	124
JPRS-21773 (p. 33-36)	125
JPRS-21773 (p. 37-39)	124
JPRS-21773 (p. 40-45)	125
JPRS-21773 (p. 46-48)	125
JPRS-21773 (p. 49-53)	125
JPRS-21775	86
JPRS-21776	85
JPRS-21778	82
JPRS-21780	89
JPRS-21784	72
JPRS-21785	80
JPRS-21786	100
JPRS-21786 (p. 1-3)	111
JPRS-21786 (p. 4-5)	98
JPRS-21786 (p. 6-8)	102
JPRS-21786 (p. 9-11)	99
JPRS-21786 (p. 12)	110
JPRS-21786 (p. 13)	98
JPRS-21786 (p. 17-19)	101
JPRS-21786 (p. 20-21)	71
JPRS-21786 (p. 26-28)	101,
JPRS-21786 (p. 29-32)	100
JPRS-21786 (p. 37-39)	99
JPRS-21786 (p. 45-50)	100
JPRS-21785 (p. 52-55)	102
JPRS-21786 (p. 56-58)	99
JPRS-21789	74
JPRS-21790	73
JPRS-21801	87
JPRS-21805	113
JPRS-21806	74
JPRS-21809	89
JPRS-21810	122
JPRS-21814	100
JPRS-21814 (p. 10)	105
JPRS-21814 (p. 14-18)	101
JPRS-21814 (p. 19-22)	100
JPRS-21814 (p. 23-29)	99
JPRS-21818	117
JPRS-21818 (p. 2-4/5)	114
JPRS-21818 (p. 8-11)	116
JPRS-21818 (p. 16-27)	117
JPRS-21818 (p. 31-33)	115
JPRS-21818 (p. 35-36)	114
JPRS-21818 (p. 39-42)	115
JPRS-21818 (p. 45-47)	116
JPRS-21818 (p. 51-55)	117
JPRS-21818 (p. 56-61)	117
JPRS-21822 (p. 8)	99
JPRS-21822 (p. 13-14)	99
JPRS-21822 (p. 15-17)	111
JPRS-21822 (p. 18-19)	112
JPRS-21822 (p. 20-22)	96
JPRS-21822 (p. 23-25)	102
JPRS-21822 (p. 26-28)	109
JPRS-21822 (p. 33-38)	101
JPRS-21822 (p. 39-41)	98
JPRS-21822 (p. 42-45)	100
JPRS-21822 (p. 46-50)	102
JPRS-21822 (p. 51-54)	110
JPRS-21822 (p. 55-59)	101
JPRS-21826	123
JPRS-21828	93
JPRS-21828 (p. 1-31)	96
JPRS-21828 (p. 32-44)	94
JPRS-21828 (p. 45-54)	97
JPRS-21828 (p. 55-62	97
JPRS-21828 (p. 63-69)	96
JPRS-21838	119
JPRS-21857	82
JPRS-21857 (p. 1-10a)	84
JPRS-21857 (p. 11-22)	83
JPRS-21874	93
JPRS-21889	98
JPRS-21885	123
JPRS-21822	100
JPRS-21895	117
JPRS-21896	115
JPRS-21896 (p. 1-11)	115
JPRS-21895 (p. 12-22)	116
JPRS-21896 (p. 23-29)	116
JPRS-21898	113
JPRS-21907	108

Number	Page
JPRS-21907 (p. 1-2)	109
JPRS-21907 (p. 3-7)	108
JPRS-21907 (p. 8)	109
JPRS-21907 (p. 9-12)	108
JPRS-21907 (p. 13-19)	108
JPRS-21913	86
JPRS-21913 (p. 1-10)	87
JPRS-21913 (p. 11-14)	87
JPRS-21913 (p. 15-18)	84
JPRS-21913 (p. 19-24)	87
JPRS-21913 (p. 25-29)	84
JPRS-21920	97
JPRS-21921	118
JPRS-21929	72
JPRS-21934	100
JPRS-21934 (p. 1-5)	88
JPRS-21934 (p. 6-11)	102
JPRS-21934 (p. 12-14)	100
JPRS-21934 (p. 15-20)	101
JPRS-21934 (p. 21-23)	99
JPRS-21934 (p. 24-28)	98
JPRS-21934 (p. 29-31)	100
JPRS-21934 (p. 32-36)	99
JPRS-21934 (p. 37-38)	99
JPRS-21934 (p. 39-41)	99
JPRS-21934 (p. 42-44)	102
JPRS-21934 (p. 45-46)	101
JPRS-R-2853-D	80
JPRS-R-2952-D	102
JPRS-R-3088-D	86
K-H-3980-b	122
K-H-5388-a	91
N63-19125	103
N63-22868	91
N63-22932	77
N64-10068	107
N64-10117	79
N64-10121	86
N64-10201	74
N64-10206	86
N64-10326	86
N64-10352	113
N64-10380	113
N64-10382	117
N64-10596	86
NASA N63-19084	120
NASA N63-19354	72
NBS Trans-T8-60	121
NCB-A-1981/SEH	98
NCB-A-2221/SEH	122
NCB-A-2225/SEH	71
NIH-5-17-63	78
NIH-5-32-63	80
NIH-6-34-63	87
NIH-6-35-63	82
NIH-7-14-63	78
NIH-7-17-63	76
NOO Trans-115	96
NOO Trans-152	75
NOO Trans-177	96
NOO Trans-179	88
NOO Trans-189	96
NOO Trans-197	93
NOO Trans-200	74
NOO Trans-202	74
NP-tr-413	120
NRCC C-4531	112
NRCC C-4532	78
OTS-SB-442, Suppl. 1	123
OTS-SB-448, Revised	107
OTS-SB-455, Revised	74
OTS-SB-477, Suppl. 1	123
OTS-SB-519	74
OTS-SB-520	74
OTS-SB-521	74
PB-73380	112
PB-117 355 superseded	94
PL-480 AEC (TT-63-11460/2)	119
PL-480 AEC (TT-63-11460/2) (p. 59-66)	85
PL-480 AEC (TT-63-11460/2) (p. 67-72)	118
PL-470 AEC (TT-63-11460/2) (p. 73-82)	89
PL-480 AEC (TT-63-11460/2) (p. 83-94)	89
PL-480 AEC (TT-63-11460/2) (p. 95-102)	89
PL-480 AEC (TT-63-11460/2) (p. 105-108)	89

Number	Page
PL-480 Agr(TT-60-21639)	112
PL-480 Int (TT-60-21650)	93
PL-480 Int (TT-63-11450-2)	114
PL-480 Int (TT-63-11450-2) (p. 5-18)	117
PL-480 Int (TT-63-11450-2) (p. 19-27)	102
PL-480 Int (TT-63-11450-2) (p. 29-42)	117
PL-480 Int (TT-63-11450-2) (p. 43-57)	98
PL-480 Int (TT-63-11450-2) (p. 59-62)	118
PSC-60-535	84
PSC-60-1745	82
RAE LPT-21	105
RAE LPT-22	105
RAE LPT-27	106
RAE LPT-28	105
RAE LPT-31	105
RAE LPT-32	105
RAE LPT-34	106
RAE LPT-35	105
RAE LPT-36	105
RAE LPT-37	106
RAE Trans-908	103
RAE Trans-909	91
RAE Trans-910	103
RAE Trans-916	92
RAE Trans-918	106
RAE Trans-919	106
RAE Trans-926	114
RAE Trans-931	92
RAE Trans-934	97
RAE Trans-936	103
RAE Trans-937	97
RAE Trans-938	106
RAE Trans-941	112
RAE Trans-942	111
RAE Trans-947	103
RAE Trans-948	105
RAE Trans-956	106
RAE Trans-957	113
RAE Trans-959	107
RAE Trans-961	109
RAE Trans-966	106
RAE Trans-970	111
RAE Trans-972	104
RAE Trans-974	104
RSIC-52	91
RSIC-71	116
RSIC-77	90
RT-1032	92
RT-2071	113
RTS-1995	104
RTS-2079	110
RTS-2106	101
RTS-2187	96
RTS-2214	96
RTS-2242	112
RTS-2258	116
RTS-2279	88
RTS-2280	72
RTS-2285	79
RTS-2286	88
RTS-2295	95
SCL-T-461	111
TT-60-21639	112
TT-60-21650	93
TT-60-23955 see TT-63-15613	96
TT-61-11147-71	72
TT-62-14103	101
TT-62-19955(AEC-tr-4826)	85
TT-62-23740	108
TT-62-25021	78
TT-62-25893	109
TT-62-32478	110
TT-62-32909	121
TT-62-32912	102
TT-62-32927	108
TT-62-33233	113
TT-63-10708	110
TT-63-11450-2	114
TT-63-11450-2(p. 5-18)	117
TT-63-11450-2(p. 19-27)	102
TT-63-11450-2(p. 29-42)	117
TT-63-11450-2(p. 43-57)	98
TT-63-11450-2(p. 59-62)	118
TT-63-11460/2 (AEC-tr-5737/2)	119

Number	Page
TT-63-11460/2 (p. 59-66) (AEC-tr-5737/2 (p. 59-66))	85
TT-63-11460/2 (p. 67-72) (AEC-tr-5737/2 (p. 67-72))	118
TT-63-11460/2 (p. 73-82) (AEC-tr-5737/2 (p. 73-82))	89
TT-63-11460/2 (p. 83-94) (AEC-tr-5737/2) (p. 83-94))	89
TT-63-11460/2 (p. 95-102) (AEC-tr-5737/2 (p. 95-102))	89
TT-63-11460/2 (p. 105-108) (AEC-tr-5737/2 (p. 105-108))	89
TT-63-12784-11(NLL)	123
TT-63-12784-11 (p. 981-1007) (Kurdyumov)	121
TT-63-12784-11 (p. 1008-1013) (NEW)	74
TT-63-12784-11 (p. 1014-1025) (Senov)	85
TT-63-12784-11 (p. 1026-1035) (Ivanov)	98
TT-63-13164 (AEC-tr-5170)	120
TT-63-13723	95
TT-63-14159	90
TT-63-14641	91
TT-63-14952	71
TT-63-15438	109
TT-63-15613(AEC-tr-4187)	96
TT-63-15622(AEC-tr-5524)	121
TT-63-15664	72
TT-63-15687	94
TT-63-15687 (p. 1-9)	94
TT-63-15687 (p. 10-18a)	95
TT-63-15687 (p. 19-35)	95
TT-63-15687 (p. 36-45a)	95
TT-63-15687 (p. 46-63)	94
TT-63-15687 (p. 64-69b)	94
TT-63-15687 (p. 70-122d)	95
TT-63-15719	75
TT-63-15802(EURAEC-377)	115
TT-63-15812(EURAEC-394)	115
TT-63-15828(EURAEC-325)	120
TT-63-15833(SCL-T-461)	111
TT-63-15837(EURAEC-444)	115
TT-63-15858(EURAEC-484)	118
TT-63-15859(EURAEC-450)	119
TT-63-15902	98
TT-63-15945	104
TT-63-16525	84
TT-63-18177	121
TT-63-18220	90
TT-63-18268	110
TT-63-18425	89
TT-63-18464	79
TT-63-18480	91
TT-63-18548	109
TT-63-18589	120
TT-63-18777	75
TT-63-18953	112
TT-63-18965	91
TT-63-18989	112
TT-63-19116	84
TT-63-19119	82
TT-63-19265	73
TT-63-19452	91
TT-63-19455	97
TT-63-19561	122
TT-63-19590	89
TT-63-19591	92
TT-63-19593	119
TT-63-19612	98
TT-63-19624	123
TT-63-19688	78
TT-63-19690	85
TT-63-19702	80
TT-63-19724	96
TT-63-19727	96
TT-63-19740	94
TT-63-19751	93
TT-63-19764	104
TT-63-19795	122
TT-63-19796	121
TT-63-19820	88
TT-63-19840	94
TT-63-19880	92
TT-63-19892	103
TT-63-19915	94
TT-63-19945	117
TT-63-19948	114
TT-63-19949	114

Number	Page
TT-63-19957	107
TT-63-19990(EURAEC-492)	119
TT-63-19994(EURAEC-301)	119
TT-63-20039	90
TT-63-20043	82
TT-63-20080	83
TT-63-20084	83
TT-63-20085	83
TT-63-20086	83
TT-63-20087	93
TT-63-20088	83
TT-63-20089	83
TT-63-20090	83
TT-63-20091	83
TT-63-20093	82
TT-63-20094	83
TT-63-20095	83
TT-63-20096	83
TT-63-20098	84
TT-63-20099	84
TT-63-20112	83
TT-63-20114	85
TT-63-20115	85
TT-63-20116	85
TT-63-20117	85
TT-63-20118	85
TT-63-20134	91
TT-63-20230	82
TT-63-20245	90
TT-63-20289	89
TT-63-20315	101
TT-63-20316	118
TT-63-20317	90
TT-63-20336	110
TT-63-20347	113
TT-63-20361	116
TT-63-20363	109
TT-63-20378	111
TT-63-20381	73
TT-63-20398	77
TT-63-20435	92
TT-63-20444	92
TT-63-20454	91
TT-63-20462	89
TT-63-20464	92
TT-63-20467	100
TT-63-20477	111
TT-63-20479	95
TT-63-20483	114
TT-63-20485	117
TT-63-20490	103
TT-63-20501	78
TT-63-20517	111
TT-63-20518	111
TT-63-20575	121
TT-63-20596	84
TT-63-20629	84
TT-63-20633	89
TT-63-20638	111
TT-63-20643	120
TT-63-20645	90
TT-63-20670	91
TT-63-20672	90
TT-63-20733	107
TT-63-20818	96
TT-63-22330(ATS-29Q71R)	118
TT-63-22730(NRCC C-4531)	112
TT-63-22804(K-H-5388-a)	91
TT-63-22806(K-H-3980-b)	122
TT-63-22852-3(EURATOM)	119
TT-63-22919(NRCC C-4532)	78
TT-63-22935(ATS-10Q72R)	82
TT-63-22947(ATS-84Q71G	90
TT-63-22956(ATS-39Q72C)	83
TT-63-22961(ATS-26Q72R)	121
TT-63-22967(ATS-07Q72R)	121
TT-63-23040	81
TT-63-23060	122
TT-63-23089	86
TT-63-23091	80
TT-63-23126	72
TT-63-23139	121
TT-63-23141	88
TT-63-23142	74
TT-63-23143	88
TT-63-23144	113
TT-63-23148	113
TT-63-23161	113
TT-63-23169	98
TT-63-23170	111
TT-63-23172	102
TT-63-23173	90
TT-63-23175	87
TT-63-23176	82
TT-63-23184	112
TT-63-23195	122
TT-63-23205	119
TT-63-23220	101
TT-63-23224	116
TT-63-23228	88
TT-63-23229	79
TT-63-23231	72
TT-63-23232	88
TT-63-23256	112
TT-63-23260	96
TT-63-23264(EURAEC-490)	119
TT-63-23273(AEC-tr-5669)	86
TT-63-23278 (UCRL Trans-922)	119
TT-63-23279(EURAEC-551)	119
TT-63-23280(EURAEC-509)	115
TT-63-23303	120
TT-63-23326(EURAEC-515)	117
TT-63-23327(EURAEC-408)	120
TT-63-23334	72
TT-63-23341	88
TT-63-23348	95
TT-63-23350	72
TT-63-23361	97
TT-63-23364	110
TT-63-23375	107
TT-63-23379	116
TT-63-23385	108
TT-63-23399	110
TT-63-23406	88
TT-63-23415	76
TT-63-23416	78
TT-63-23436	120
TT-63-23476	113
TT-63-23478	122
TT-63-23502	110
TT-63-23504	109
TT-63-23506	88
TT-63-23542	103
TT-63-23558	102
TT-63-23576	91
TT-63-23589	72
TT-63-23598	87
TT-63-23602	96
TT-63-23606	92
TT-63-23607	103
TT-63-23609	120
TT-63-23616	104
TT-63-23617	116
TT-63-23622	97
TT-63-23628	114
TT-63-23629	93
TT-63-23630	123
TT-63-23631	102
TT-63-23639	102
TT-63-23640	106
TT-63-23641	104
TT-63-23647	72
TT-63-23653	106
TT-63-23657	115
TT-63-23668	114
TT-63-23675	98
TT-63-23702	94
TT-63-23711	113
TT-63-23712	114
TT-63-23713	104
TT-63-23715	94
TT-63-23717	113
TT-63-23718	97
TT-63-23720	103
TT-63-23721	117
TT-63-23723	100
TT-63-23724	121
TT-63-23728	123
TT-63-23730	102
TT-63-23733	106
TT-63-23738	112
TT-63-23751	72
TT-63-23752	105
TT-63-23754	112
TT-63-23759	96
TT-63-23760	88
TT-63-23762	93
TT-63-23769	90
TT-63-23776	108
TT-63-23779	92
TT-63-23782	92
TT-63-23784	104
TT-63-23785	123
TT-63-23786	104
TT-63-23793	109
TT-63-23796	122
TT-63-23798	93
TT-63-23800	75
TT-63-23801	74
TT-63-23803	74
TT-63-23805	71
TT-63-23822	109
TT-63-23823	111
TT-63-23910	77
TT-63-23912	86
TT-63-23913	71
TT-63-23917	118
TT-63-23946	104
TT-63-23948	105
TT-63-23957	108
TT-63-23961	104
TT-63-23962	109
TT-63-23964	103
TT-63-23969	103
TT-63-23970	103
TT-63-23979	103
TT-63-23984	108
TT-63-24017	119
TT-63-24046	121
TT-63-24052	116
TT-63-24061	120
TT-63-24089	107
TT-63-24093	104
TT-63-24099	118
TT-63-24104	105
TT-63-24114	91
TT-63-24132	120
TT-63-24133	110
TT-63-24139	86
TT-63-24142	125
TT-63-24155	105
TT-63-24157	105
TT-63-24161	106
TT-63-24162	105
TT-63-24165	105
TT-63-24166	105
TT-63-24172	71
TT-63-24173	122
TT-63-24181	74
TT-63-24232	75
TT-63-24232 (p. 1-3)	79
TT-63-24232 (p. 4-7)	75
TT-63-24232 (p. 8-12)	82
TT-63-24232 (p. 13-16)	80
TT-63-24232 (p. 17-19)	76
TT-63-24232 (p. 20-23)	76
TT-63-24232 (p. 24-27)	76
TT-63-24232 (p. 28-31)	76
TT-63-24232 (p. 32-37)	76
TT-63-24232 (p. 38-43)	77
TT-63-24232 (p. 44-47)	81
TT-63-24232 (p. 48-51)	81
TT-63-24232 (p. 52-55)	84
TT-63-24232 (p. 56-58)	77
TT-63-24232 (p. 59-63)	82
TT-63-24232 (p. 64-68)	77
TT-63-24232 (p. 69-72)	77
TT-63-24232 (p. 73-78)	76
TT-63-24232 (p. 79-83)	80
TT-63-24232 (p. 84-86)	79
TT-63-24232 (p. 87-90)	79
TT-63-24232 (p. 91-92)	79
TT-63-24232 (p. 93-95)	79
TT-63-24232 (p. 96-99)	80
TT-63-24232 (p. 100-102)	80
TT-63-24232 (p. 103-106)	80
TT-63-24232 (p. 107-108)	80
TT-63-24232 (p. 109-111)	80
TT-63-24232 (p. 112-113)	81
TT-63-24232 (p. 114-118)	81
TT-63-24232 (p. 119-122)	81
TT-63-24232 (p. 123-126)	81
TT-63-24232 (p. 127-128)	82
TT-63-24232 (p. 129-131)	81
TT-63-24232 (p. 132-134)	82
TT-63-24232 (p. 135-138)	79
TT-63-24232 (p. 139-141)	77
TT-63-24232 (p. 142-144)	76
TT-63-24232 (p. 145-147)	76
TT-63-24232 (p. 148-150)	84
TT-63-24232 (p. 151-152)	77
TT-63-24232 (p. 153-154)	77
TT-63-24232 (p. 155-158)	76
TT-63-24232 (p. 159)	76
TT-63-24232 (p. 160-163)	75
TT-63-24232 (p. 164-168)	75
TT-63-24232 (p. 169-172)	77
TT-63-24232 (p. 173-176)	75
TT-63-24232 (p. 177-179)	75
TT-63-24232 (p. 180-182)	81
TT-63-24232 (p. 183-186)	81
TT-63-24232 (p. 187-191)	75
TT-63-24232 (p. 192-195)	80
TT-63-24234	114
TT-63-24251	122
TT-63-24265	90
TT-63-24277	106
TT-63-24278	105
TT-63-24279	105
TT-63-24280	106
TT-63-24283	92
TT-63-24287	90
TT-63-24288	93
TT-63-24304	91
TT-63-24305	103
TT-63-24306	103
TT-63-24311	92
TT-63-24312	106
TT-63-24313	106
TT-63-24316	114
TT-63-24319	92
TT-63-24320	97
TT-63-24321	103
TT-63-24322	97
TT-63-24323	106
TT-63-24324	112
TT-63-24325	111
TT-63-24327	103
TT-63-24328	105
TT-63-24330	106
TT-63-24331	113
TT-63-24332	107
TT-63-24333	109
TT-63-24335	106
TT-63-24338	111
TT-63-24339	104
TT-63-24340	104
TT-63-24352	95
TT-63-24366	96
TT-63-24368	95
TT-63-31333	124
TT-63-31948	86
TT-63-31951	93
TT-63-31952	77
TT-63-31953	85
TT-63-31958	86
TT-63-31972	88
TT-63-31973	86
TT-63-31981	124
TT-63-41000	79
TT-63-41002	78
TT-63-41005	71
TT-63-41008	93
TT-63-41010	71
TT-63-41011	73
TT-63-41011 (p. 6-10)	74
TT-63-41011 (p. 11-20)	73
TT-63-41011 (p. 21-22)	73
TT-63-41013	74
TT-63-41014	107
TT-63-41016	79
TT-63-41018	81
TT-63-41023	85
TT-63-41025	87
TT-63-41027	87
TT-63-41029	117
TT-63-41029 (p. 10-14)	115
TT-63-41029 (p. 15-26)	116
TT-63-41029 (p. 27-34)	115
TT-63-41029 (p. 35-42)	116
TT-63-41029 (p. 43-51)	98
TT-63-41029 (p. 52-53)	115
TT-63-41029 (p. 54-58)	115
TT-63-41030	99
TT-63-41030 (p. 1-2)	110
TT-63-41030 (p. 6-7)	100
TT-63-41030 (p. 8-11)	100
TT-63-41030 (p. 12-13)	98
TT-63-41030 (p. 13-17)	99
TT-63-41030 (p. 20-23)	102

Number	Page
TT-63-41030 (p. 24-26)	101
TT-63-41030 (p. 30-33)	99
TT-63-41030 (p. 37-41)	99
TT-63-41030 (p. 42-47)	101
TT-63-41030 (p. 48-50)	102
TT-63-41030 (p. 51-54)	102
TT-63-41030 (p. 55-57)	101
TT-63-41034	78
TT-63-41034 (p. 1-11)	78
TT-63-41034 (p. 12-17)	78
TT-63-41034 (p. 18-19)	78
TT-63-41034 (p. 20-21)	78
TT-63-41039	90
TT-63-41042	73
TT-63-41043	71
TT-63-41043 (p. 1-2)	71
TT-63-41043 (p. 8-9)	124
TT-63-41043 (p. 10-11)	71
TT-63-41044	73
TT-63-41045	118
TT-63-41047	73
TT-63-41059	86
TT-63-41059 (p. 1-7)	87
TT-63-41059 (p. 8-14)	87
TT-63-41059 (p. 15)	87
TT-63-41060	73
TT-63-41063	97
TT-63-41064	75
TT-63-41065	78
TT-63-41066	123
TT-63-41067	76
TT-63-41071	73
TT-63-41072	124
TT-63-41072 (p. 1-5)	124
TT-63-41072 (p. 6-9)	125
TT-63-41072 (p. 10-12)	124
TT-63-41072 (p. 13-14)	125
TT-63-41072 (p. 15-20)	125
TT-63-41072 (p. 21-24)	124
TT-63-41072 (p. 25-28)	107
TT-63-41072 (p. 29-32)	108
TT-63-41072 (p. 33-36)	107
TT-63-41072 (p. 37-40)	101
TT-63-41072 (p. 41-53)	107
TT-63-41072 (p. 54-57a)	116
TT-63-41072 (p. 58-60)	124
TT-63-41074	95
TT-63-41075	87
TT-63-41077	86
TT-63-41078	118
TT-63-41079	118
TT-63-41084	73
TT-63-41087	84
TT-63-41088	124
TT-63-41088 (p. 1)	123
TT-63-41088 (p. 2-3)	124
TT-63-41088 (p. 4)	113
TT-63-41088 (p. 5-7)	124
TT-63-41088 (p. 8-9)	125
TT-63-41088 (p. 10-14)	108
TT-63-41088 (p. 15-19)	125
TT-63-41088 (p. 20-22)	125
TT-63-41088 (p. 23-25)	124
TT-63-41088 (p. 26-28)	125
TT-63-41088 (p. 29-32)	124
TT-63-41088 (p. 33-36)	125
TT-63-41088 (p. 37-39)	124
TT-63-41088 (p. 40-45)	125
TT-63-41088 (p. 46-48)	125
TT-63-41088 (p. 49-53)	125
TT-63-41089	86
TT-63-41090	85
TT-63-41092	82
TT-63-41093	89
TT-63-41096	72
TT-63-41097	80
TT-63-41098	100
TT-63-41098 (p. 1-3)	111
TT-63-41098 (p. 4-5)	98
TT-63-41098 (p. 6-8)	102
TT-63-41098 (p. 9-11)	99
TT-63-41098 (p. 12)	110
TT-63-41098 (p. 13)	98
TT-63-41098 (p. 17-19)	101
TT-63-41098 (p. 20-21)	71
TT-63-41098 (p. 26-28)	101
TT-63-41098 (p. 29-32)	100
TT-63-41098 (p. 37-39)	99
TT-63-41098 (p. 45-50)	100
TT-63-41098 (p. 52-55)	102
TT-63-41098 (p. 56-58)	99
TT-63-41099	74
TT-63-41100	73
TT-63-41104	87
TT-63-41106	113
TT-63-41107	74
TT-63-41109	89
TT-63-41110	122
TT-63-41111	100
TT-63-41111 (p. 10)	105
TT-63-41111 (p. 14-18)	101
TT-63-41111 (p. 19-22)	100
TT-63-41111 (p. 23-29)	99
TT-63-41114	117
TT-63-41114 (p. 2-4/5)	114
TT-63-41113 (p. 8-11)	116
TT-63-41114 (p. 16-27)	117
TT-63-41114 (p. 31-33)	115
TT-63-41114 (p. 35-36)	114
TT-63-41114 (p. 39-42)	115
TT-63-41114 (p. 45-47)	116
TT-63-41114 (p. 51-55)	117
TT-63-41114 (p. 56-61)	117
TT-63-41116	100
TT-63-41116 (p. 8)	99
TT-63-41116 (p. 13-14)	99
TT-63-41116 (p. 15-17)	111
TT-63-41116 (p. 18-19)	112
TT-63-41116 (p. 20-22)	96
TT-63-41116 (p. 23-25)	102
TT-63-41116 (p. 26-28)	109
TT-63-41116 (p. 33-38)	101
TT-63-41116 (p. 39-41)	98
TT-63-41116 (p. 42-45)	100
TT-63-41116 (p. 46-50)	102
TT-63-41116 (p. 51-54)	110
TT-63-41116 (p. 55-59)	101
TT-63-41118	123
TT-63-41120	93
TT-63-41120 (p. 1-31)	96
TT-63-41120 (p. 32-44)	94
TT-63-41120 (p. 45-54)	97
TT-63-41120 (p. 55-62)	97
TT-63-41120 (p. 63-69)	96
TT-63-41128	119
TT-63-41135	82
TT-63-41135 (p. 1-10a)	84
TT-63-41135 (p. 11-22)	83
TT-63-41142	93
TT-63-41146	123
TT-63-41147	98
TT-63-41151	117
TT-63-41152	115
TT-63-41152 (p. 1-11)	115
TT-63-41152 (p. 12-22)	116
TT-63-41152 (p. 23-29)	116
TT-63-41154	113
TT-63-41157	108
TT-63-41157 (p. 1-2)	109
TT-63-41157 (p. 3-7)	108
TT-63-41157 (p. 8)	109
TT-63-41157 (p. 9-12)	108
TT-63-41157 (p. 13-19)	108
TT-63-41162	86
TT-63-41162 (p. 1-10)	87
TT-63-41162 (p. 11-14)	87
TT-63-41162 (p. 15-18)	84
TT-63-41162 (p. 19-24)	87
TT-63-41162 (p. 25-29)	84
TT-63-41166	97
TT-63-41167	118
TT-63-41174	100
TT-63-41174 (p. 1-5)	88
TT-63-41174 (p. 6-11)	102
TT-63-41174 (p. 12-14)	100
TT-63-41174 (p. 15-20)	101
TT-63-41174 (p. 21-23)	99
TT-63-41174 (p. 24-28)	98
TT-63-41174 (p. 29-31)	100
TT-63-41174 (p. 32-36)	99
TT-63-41174 (p. 37-38)	99
TT-63-41174 (p. 39-41)	99
TT-63-41174 (p. 42-44)	102
TT-63-41174 (p. 45-46)	101
TT-64-10104	89
TTIS PN-425	110
TVA-3992	92
TVA-4020	90
TVA-4028	93
UCRL-Trans-922	119
USASIA Trans-1067	121

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SERVE THE BUSINESS COMMUNITY

The Department of Commerce maintains Field Offices to enable the business community to avail itself locally of Government facilities designed to promote commerce. Working closely with various units in the Department and, when necessary, with other Government agencies, the Field Offices provide business services to manufacturers, wholesalers, retailers, trade publications, trade associations, advertising agencies, research groups, financial institutions, and exporters and importers.

Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field Offices act as official sales agents of the Superintendent of Documents, and maintain an extensive business reference library containing periodicals, directories, publications and reports from official as well as private sources.

Among the many services which businessmen have found of value are:

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- Establishing a new business

BASIC ECONOMIC DATA

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- Basic records of national income and product, regional trends, balance of payments, foreign aid

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- Development and maintenance of markets
- Distribution channels, facilities and services
- Marketing and distribution statistics

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- Modernization of plant processes and other technological aids
- Development of new products
- Government-owned patents for free license
- Commodity standards

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- Tariff and exchange regulations
- Import and export quotas, licensing regulations
- Statistics on imports and exports
- Investment and trade opportunities abroad
- Economic conditions in foreign countries

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To make the services of the Department of Commerce more widely available, agreements have been entered into with more than 750 Chambers of Commerce, Manufacturers Associations, and similar business groups under which these organizations have become official Cooperative Offices of the Department. If specific information is not on hand in the Cooperative Office, your problem will be referred to the nearest Departmental field office.

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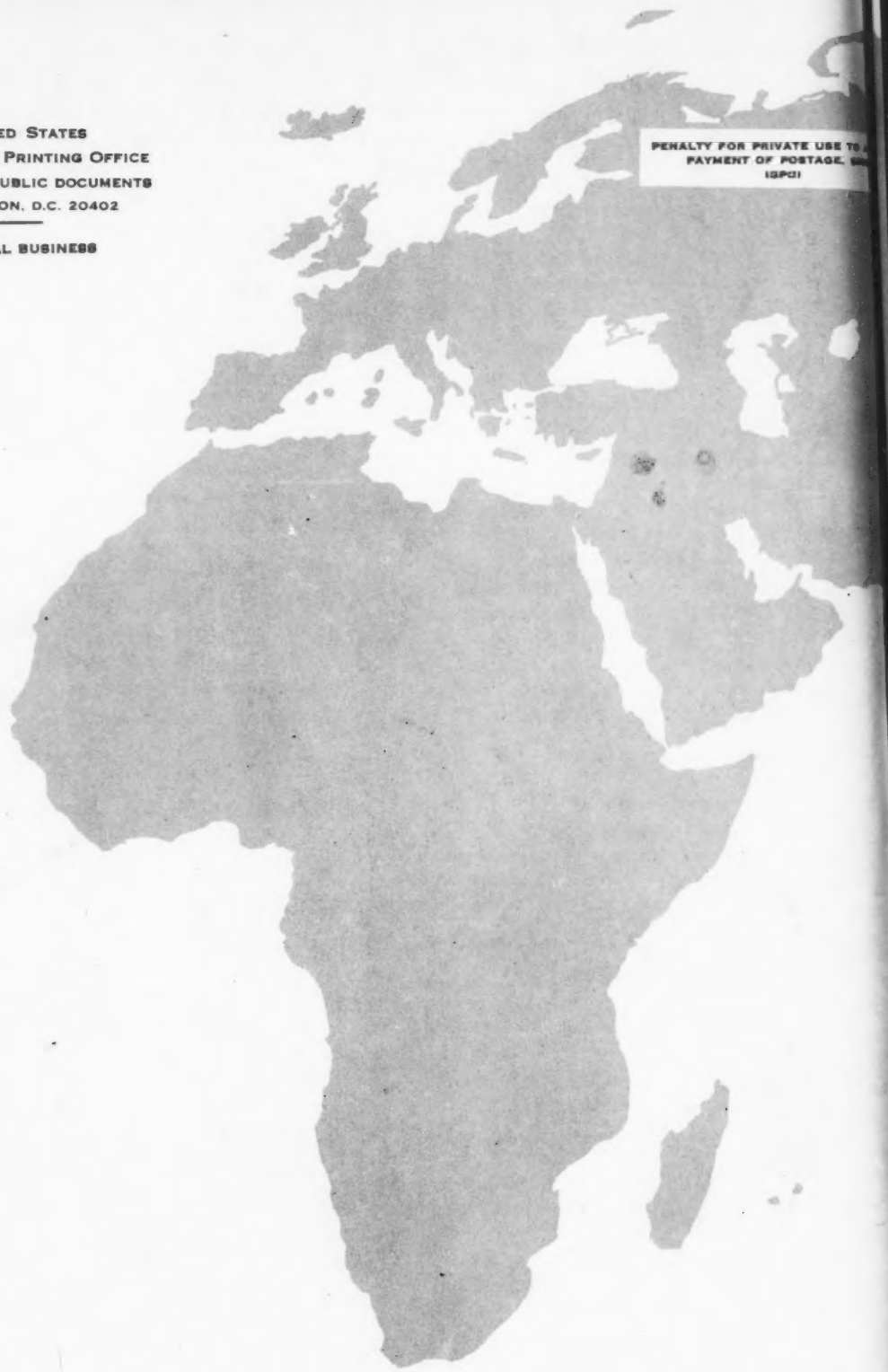
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